

JVC

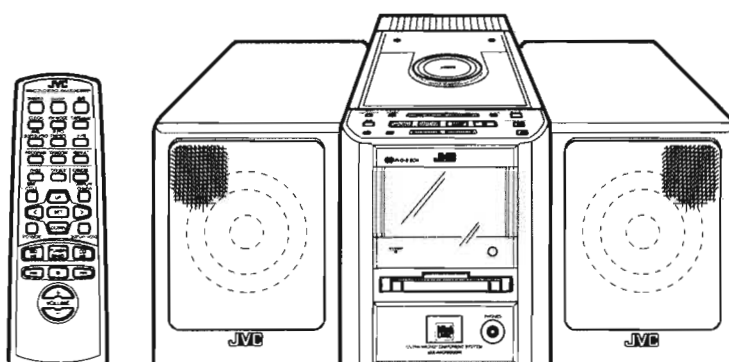
SERVICE MANUAL

MICRO COMPONENT SYSTEM

UX-MD9000R

Area Suffix

B	U.K.
E	Continental Europe Northern
EN	Europe



CD-S EON

COMPACT
disc
DIGITAL AUDIO

Contents

Safety Precautions	1-2	Maintenance & Replacement	
Important for Laser Products	1-4	of Laser Pickup(CD&MD)	2-45
Instructions	1-5~21	Self Diagnosis Function of CD	2-47
Description of Major ICs	2-1	Block Diagram for MD Section	2-49
Intermittent Connection for FL Display Tube	2-23	Wiring Connections	2-50
Removal of Main Parts	2-24	Schematic Diagrams	2-51~57
Adjusting method	2-40	Printed Circuit Board	2-58~61
Flow of Functional Operation		Parts List	3-1~23
Until TOC Read(CD&MD)	2-43		

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

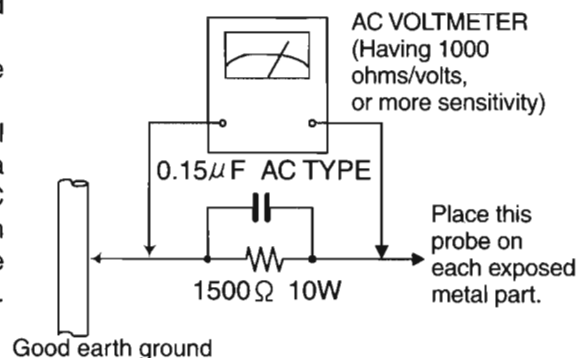
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)

● Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now reverse the plug in the AC outlet and repeat each measurement voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ CAUTION Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

Safety Precautions (U.K only)

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
2. Any unauthorised design alterations or additions will void the manufacturer's guarantee ; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
3. Essential safety critical components are identified by (\triangle) on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

Warning

1. Service should be performed by qualified personnel only.
2. This equipment has been designed and manufactured to meet international safety standards.
3. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
4. Repairs must be made in accordance with the relevant safety standards.
5. It is essential that safety critical components are replaced by approved parts.
6. If mains voltage selector is provided, check setting for local voltage.

\triangle CAUTION Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

Important for Laser Products

- 1.CLASS 1 LASER PRODUCT**

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

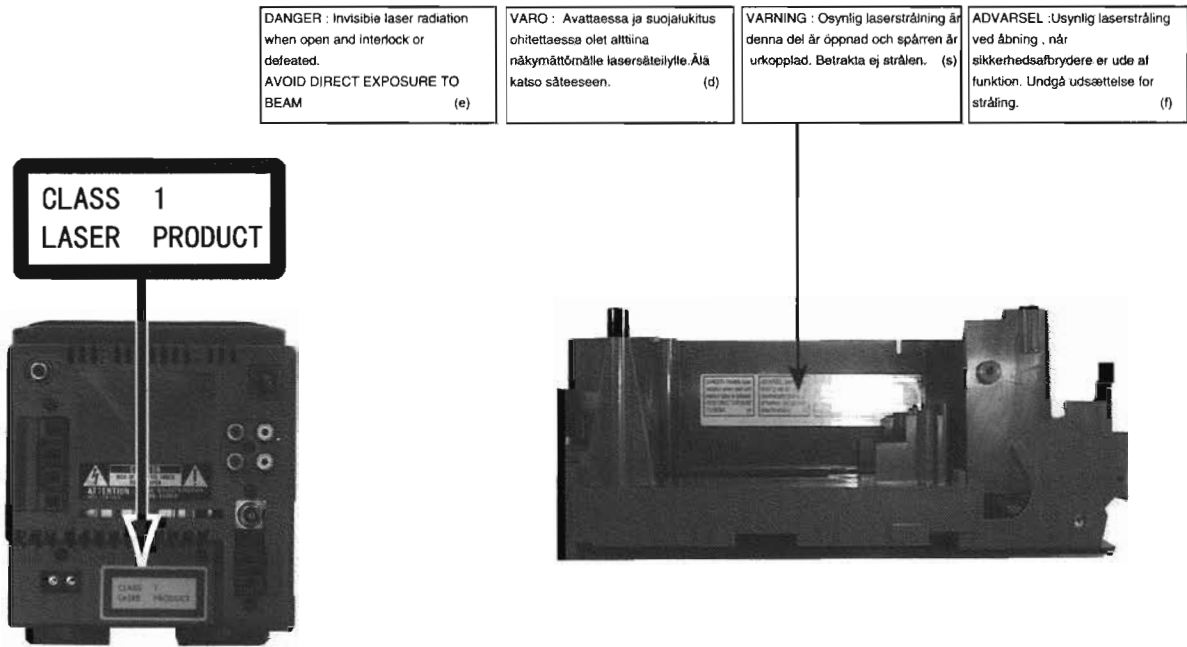
4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
- 5.CAUTION :** If safety switches malfunction, the laser is able to function.

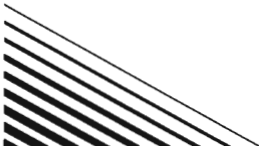
6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

<p>VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.</p> <p>VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.</p>	<p>ADVARSEL : Usynlig laserstrålning ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.</p> <p>ADVARSEL : Usynlig laserstrålning ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.</p>
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REPRODUCTION AND POSITION OF LABELS

WARNING LABEL





Instructions

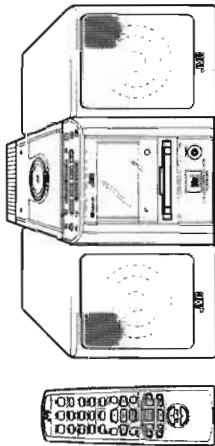


JVC

ULTRA MICRO COMPONENT SYSTEM
ULTRA-MIKRO-KOMPONENTEN-SYSTEM
SYSTEME DE COMPOSANTS ULTRA MICRO
ULTRA MIKRO KOMPONENTENSISTEEM
SISTEMAS DE COMPONENTES ULTRA MICRO
SISTEMA AD ULTRA MICROCOMPONENTI

UX-MD9000R

JVC
VICTOR COMPANY OF JAPAN, LIMITED



CD-R·D·S EON

COMPACT disc
DIGITAL AUDIO

INSTRUCTIONS
BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEbruIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI

For Customer Use: Enter below the Model No. and Serial No. which are located either on the rear, bot- tom or side of the cabinet. Retain this information for future reference.	
Model No.	
Serial No.	

LVT0053-001B
[E]

Warnings, Cautions and Others / Warnung, Achtung und sonstige Hinweise /Mises en garde, précautions et indications diverses /Waarschuwingen, voorzorgen en andere mededelingen/Avisos, precauciones y otras notas / Avvertenze e precauzioni da osservare

Per l'Italia:
"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95."

Caution — 0/1 switch!
Disconnect the mains plug to shut the power off completely. The 0/1 switch in any position does not disconnect the mains line. The power can be remote controlled.

Achtung — 0/1 Schalter!
Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der Schalter 0/1 unterbricht in keiner Stellung die Stromversorgung vollkommen. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

Attenzione — Commutateur 0/1!
Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur 0/1 ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

Voorzichtig — 0/1 schakelaar!
Om de stroomvoorziening geheel uit te schakelen, trek u de stekker uit het stopcontact. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de 0/1 schakelaar. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

Precaución — Interruptor 0/1!
Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del interruptor 0/1, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

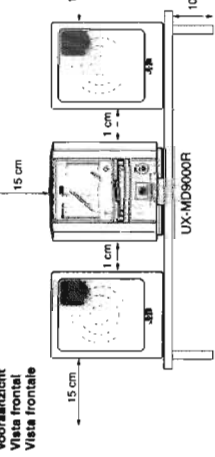
Attenzione — L'interruttore 0/1!
Disinserire la spina del cavo di alimentazione dalla presa della rete elettrica per staccare completamente l'alimentazione. L'interruttore 0/1 in nessuna posizione stacca la linea di alimentazione elettrica completamente. È possibile il controllo remoto dell'alimentazione.

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

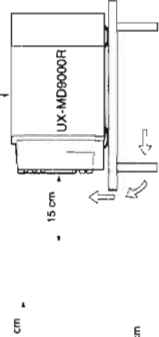
ACHTUNG
Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw.:
1. Keine Schrauben lösen oder Abdeckungen entfernen und das Gehäuse nicht öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

ATTENTION
Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

Front view
Vorderansicht
Face
Voorzijdsicht
Vista frontal
Vista frontale



Side view
Sellenansicht
Côté
Zijzichtsicht
Vista lateral
Vista laterale



Caution: Proper Ventilation
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:
1 Front:
No obstructions and open spacing.
2 Sides/ Top/ Back:
No obstructions should be placed in the areas shown by the dimensions below.
3 Bottom:
Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

Voricht: Ausreichende Belüftung
Zur Vermeidung von elektrischen Schlägen, Feuer und sonstigen Schäden sollte das Gerät unter folgenden Bedingungen aufgestellt werden:
1 Vorderseite:
Hindernisse frei und gut zugänglich.
2 Seiten- und Rückwände:
Hindernisse in allen gegebenen Abständen (s. Abbildung).
3 Unterseite:
Die Stelltfläche muß absolut eben sein. Sorgen Sie für ausreichende Luftzufuhr durch Aufstellung auf einem Stand mit mindestens 10 cm Höhe.

Attenion: Aération correcte
Pour prévenir tout risque de décharge électrique ou d'incendie et éviter toute détérioration, installez l'appareil de la manière suivante:
1 Avant:
Bien dégagé de tout objet.
2 Côtés/dessus/dessous:
Assurez-vous que rien ne bloque les espaces indiqués sur le schéma ci-dessous.
3 Dessous:
Posez l'appareil sur une surface plane et horizontale. Veillez à ce qu'il y ait une ventilation adéquate en laissant un espace libre en le plaçant sur un support d'au moins dix centimètres de hauteur.

Voorzichtig: Goede ventilatie vereist
Om brand, elektrische schokken en beschadiging te voorkomen, moet u het toestel als volgt opstellen:
1 Voorkant:
Geen belemmeringen en voldoende ruimte.
2 Zijkant/en/boven-/onderkant:
Geen belemmeringen plaatsen in de hieronder aangegeven zones.
3 Onderkant:
Op vlakke ondergrond plaatsen. Voldoende ventilatieruimte voorzien door het toestel op een onderstel met een hoogte van 10 cm of meer te plaatsen.

Precaución: ventilación correcta
Para evitar el riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla los siguientes requisitos:
1 Parte frontal:
Sin obstrucciones, espacio abierto.
2 Lados/parte superior/parte posterior:
No debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
3 Parte inferior:
Situe el equipo sobre una superficie nivelada. Mantenga un espacio adecuado para permitir el paso del aire y una correcta ventilación, situando el equipo sobre un soporte de 10 o más cm de altura.

Attenzione: Per una corretta ventilazione
Per prevenire il rischio di scosse elettriche e di incendio ed evitare possibili danni, collocare le apparecchiature nel modo seguente:
1 Parte anteriore:
Nessun ostacolo e spazio libero.
2 Lati/Parte superiore/Retto:
Lasciare libere le zone indicate dalle dimensioni di seguito.
3 Base:
Collocare su una superficie piana. Consentire un'adeguata ventilazione dell'impianto appoggiandolo su un tavolino alto almeno 10 cm.

Thank you for purchasing the JVC Ultra Micro Component System. We hope it will be a valued addition to your home, giving you years of enjoyment. Be sure to read this instruction manual carefully before operating your new stereo system. In it you will find all the information you need to set up and use the System. If you have a query that is not answered by the manual, please contact your dealer.

Features

Here are some of the things that make your System both powerful and simple to use.

- The controls and operations have been redesigned to make them very easy to use. Featuring you to just enjoy the music.
- With JVC's **COMPU PLAY** you can turn on the System and automatically start the Radio, CD Player, MD Player with a single touch.
- The System incorporates Active Hyper Bass Super PRO circuitry to faithfully reproduce low frequency sounds.
- A 45-station preset capability (30 FM and 15 AM (MW/L W)) in addition to auto-tune and manual tuning.
- Versatile CD options include repeat, random and program play.
- Versatile MD Player provides playback function, recording function, editing function of the tracks in the MD, title function to give title to the MD and tracks.
- Sampling rate converter which supports 3 digital sources Incorporated.
- 32 kHz, 44.1 kHz and 48 kHz.
- Tuner functions, set the system to automatically come on, switch off.
- The System is compatible with RDS (Radio Data System) broadcasting.
- The RDS data enables you to standby for desired information.
- The PTY Search function searches for programmes in the category you wish.
- In addition, Radio Text can be displayed using data sent by station.
- You can connect various external units, such as a CD player, tape deck, etc.

How This Manual is Organized

- Basic information that is the same for many different functions - e.g. setting the volume - is given in the section "Common Operations" and not repeated under each function.
 - The names of buttons/controls and display messages are written in all capital letters: e.g. **TUNER BAND**, "NO DISC".
 - System functions are written with an initial capital letter only: e.g. **Normal Play**.
- Use the table of contents to look up specific information you require.
- We've enjoyed making this manual for you, and hope it serves you in enjoying the many features built into your System.

IMPORTANT CAUTIONS

1. Installation of the System

- Select a place which is level, dry and neither too hot nor too cold. (Between 5°C and 35°C or 41°F and 95°F.)
- Leave sufficient distance between the System and a TV.
- Do not use the System in a place subject to vibrations.

2. Power cord

- Do not handle the power cord with wet hands!
- Some power is always consumed as long as the power cord is connected to the wall outlet.
- When unplugging the System from the wall outlet, always pull the plug, not the power cord.

3. Malfunctions, etc.

- There are no user serviceable parts inside. In case of system failure, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the System.

Table of Contents

Features	1	Using the Timers	22
How This Manual is Organized	1	Information on MDs (Minidiscs)	23
IMPORTANT CAUTIONS	1	MD (Minidisc) Error Messages	24
Getting Started	2	Minidisc limitations	25
Common Operations	6	Rules of Digital Dubbing	25
Using the Tuner	8	Care And Maintenance	26
Using the CD Player	11	Troubleshooting	27
Using the MD Player (Listening to an MD)	13	Specifications	28
Recording onto an MD	15		
Using the MD Player (Editing)	16		
Using External Equipments	21		

IMPORTANT FOR LASER PRODUCTS/ WICHTIGER HINWEIS FÜR LASER-PRODUKTE / IMPORTANT POUR LES PRODUITS LASER / BELANGRIJKE INFORMATIE VOOR LASERPRODUCTEN / IMPORTANTE PARA LOS PRODUCTOS LASER / IMPORTANTE PER I PRODOTTI LASER

REPRODUCTION OF LABELS/BRINGUNGSSORTE FÜR LASER-PRODUKTE/REPRODUCTION DES ÉTIQUETTES/VERKLARING VAN DE LABELS/REPRODUCCIÓN DE ETIQUETAS/RIPRODUZIONE DELLE ETICHETTE

1. CLASSIFICATION LABEL, PLACED ON EXTERIOR SURFACE
SENSIÈVE
2. CLASSIFICATION LABEL, PLACED ON EXTERIOR SURFACE
SENSIÈVE
3. ETIQUETTE DE CLASSIFICATION, PLACÉE SUR LA SURFACE
EXTÉRIEURE
4. ETIQUETA DE CLASIFICACION, PROVISTA SOBRE LA SUPER-
FICIE EXTERIOR
5. ETICHETTA DI CLASSIFICAZIONE POSTA ALL'ESTERNO
6. ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE
LA UNIDAD
7. ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO
DELL'APPARECCHIO
8. ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE
LA UNIDAD
9. ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO
DELL'APPARECCHIO
10. ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE
LA UNIDAD
11. ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO
DELL'APPARECCHIO
12. ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE
LA UNIDAD
13. ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO
DELL'APPARECCHIO
14. ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE
LA UNIDAD
15. ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO
DELL'APPARECCHIO



1. CLASS 1 LASER PRODUCT
2. DANGER: Inside laser radiation when open and interlock failed
3. CAUTION: Do not open the top cover. There are no user serviceable parts inside the Unit, leave all servicing to qualified service personnel.
4. LASER-PRODUKT DER KLASSE 1
5. GEFAHR: Unsichtbare Laserstrahlung bei Öffnung und fehlerhafter oder beschädigter Sperr. Direkten Kontakt mit dem Strahl vermeiden!
6. ACHTUNG: Das Gehäuse nicht öffnen. Das Gerät enthält keine-lei Teile, die vom Benutzer gewartet werden können. Überlassen Sie Wartungsarbeiten bitte qualifizierten Kundendienst-Fachleuten.
7. PRODUIT LASER CLASSE 1
8. PERICOLO: Radiazione laser invisibile quando l'apparecchio è aperto ed il dispositivo di sicurezza è guasto o disattivato. Evitare l'esposizione diretta ai raggi.
9. ATTENZIONE: Non aprire il coperchio superiore. Non vi sono parti adoperabili dall'utente all'interno di questo apparecchio; lasciare tutti i controlli a personale qualificato.
10. PRODUIT LASER CLASSE 1
11. PERICOLO: Radiazione laser invisibile quando l'apparecchio è aperto ed il dispositivo di sicurezza è guasto o disattivato. Evitare l'esposizione diretta ai raggi.
12. ATTENZIONE: Non aprire il coperchio superiore. Non vi sono parti adoperabili dall'utente all'interno di questo apparecchio; lasciare tutti i controlli a personale qualificato.
13. PRODUIT LASER CLASSE 1
14. PERICOLO: Radiazione laser invisibile quando l'apparecchio è aperto ed il dispositivo di sicurezza è guasto o disattivato. Evitare l'esposizione diretta ai raggi.
15. ATTENZIONE: Non aprire il coperchio superiore. Non vi sono parti adoperabili dall'utente all'interno di questo apparecchio; lasciare tutti i controlli a personale qualificato.

Getting Started

Accessories

Check that you have all of the following items, which are supplied with the System.

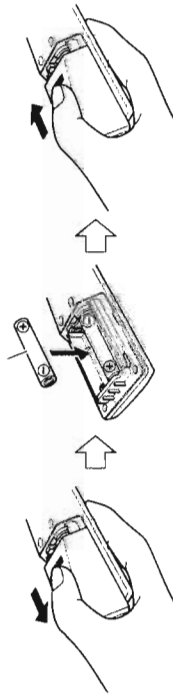
- Power Cord (1)
- AM Loop Antenna (1)
- Remote Control (1)
- Batteries (2)
- FM Wire Antenna (1)
- Speaker Cords (2)
- Polishing Cloth (1)

If any of these items are missing, contact your dealer immediately.

How To Put Batteries In the Remote Control

Match the polarity (+ and -) on the batteries with the + and - markings in the battery compartment.

R6P(SUM-3)/AA(15F)

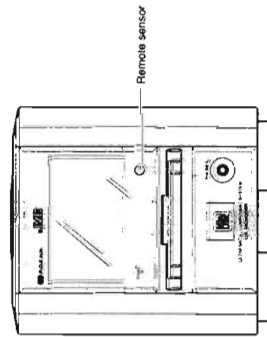


CAUTION: Handle batteries properly.

- To avoid battery leakage or explosion:
- Remove batteries when the Remote Control will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Don't use an old battery with a new one.
- Don't use different types of batteries together.

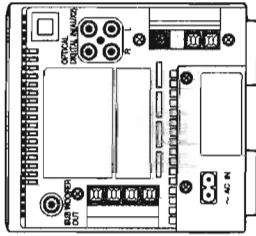
Using the Remote Control

The Remote Control makes it easy to use many of the functions of the System from a distance of up to 7m (23 feet) away. You need to point the Remote Control at the remote sensor on the System's front panel.

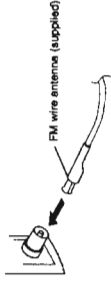


CAUTION: Make all connections before plugging the System into an AC power outlet.

Connecting the FM Antenna



Using the Supplied Wire Antenna



Using the Coaxial Type Connector (Not Supplied)

A 75-ohm antenna with coaxial type connector (IEC or DIN45 325) should be connected to the FM 75-ohm COAXIAL terminal.



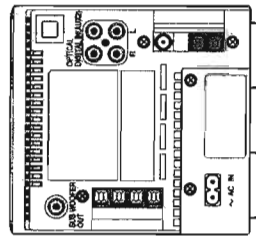
If reception is poor, connect the outside antenna.



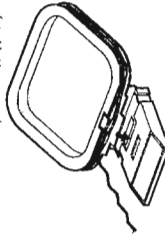
Note: Before attaching a 75 ohm coaxial lead (the kind with a round wire going to an outside antenna), disconnect the supplied FM Wire Antenna.

CAUTION: To avoid noise, keep antennas away from the System, the connecting cord and the AC power cord.

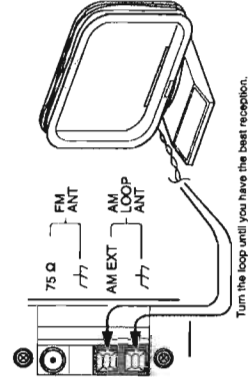
Connecting the AM (MW/LW) Antenna



AM loop antenna (Supplied)



Attach the AM loop to its base by snapping the tabs on the loop into the slot in the base.

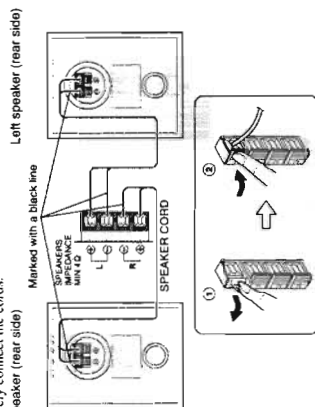


Turn the loop until you have the best reception.

CAUTION: Make all connections before plugging the System into an AC power outlet.

Connecting the Speakers

1. Open each of the terminals to connect the speaker wire leads.
2. Connect the speaker cords between the Speaker terminals of the Unit and the terminals of the Speakers. Connect the cords with a black line to the (-) terminals and cords without a black line to the (+) terminals.
3. Close each of the terminals to securely connect the cords.

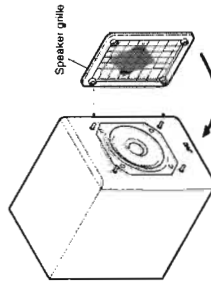


CAUTION: A TV may display irregular colors if located near the speakers. If this happens, set the speakers away from the TV.

Removing the speaker grilles

The speaker grilles can be removed.

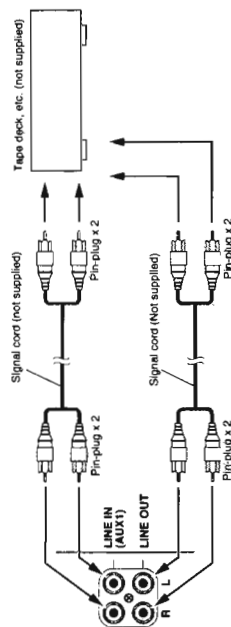
1. Insert your fingers at the top and pull towards you.
2. Also pull the bottom towards you.



Connecting External Equipment

Connecting a Tape Deck, etc.

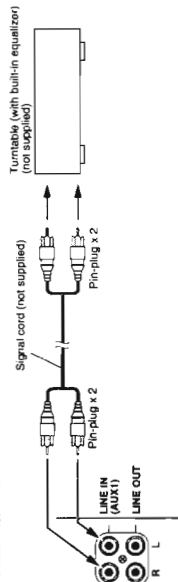
Connect (not supplied) signal cords between the System's LINE IN (AUX1) OUT terminals and the output/input terminals of the external tape deck, etc. You can listen to one of these sources. Also, you can record the System's CD Player, MD Player, or tuner output signal to the external tape deck, etc..



CAUTION: Make all connections before plugging the System into an AC power outlet.

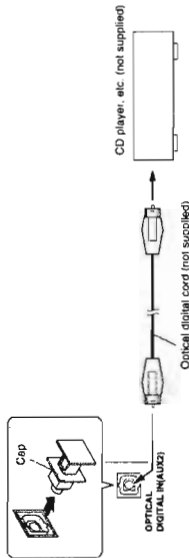
Connecting Auxiliary Equipment

Connect an (not supplied) signal cord between the LINE IN (AUX1) terminals on the System and the output terminals of your auxiliary equipment (e.g. turntable). You can listen to this source.



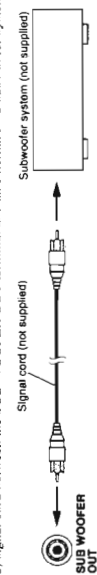
Connecting a CD Player, etc (Digital Input (AUX2))

Unplug the cap and connect an (not supplied) optical digital cord between the System's OPTICAL DIGITAL IN (AUX2) terminal and the output terminal of the CD player, etc. You can listen to the digital input signal from the CD player, etc.



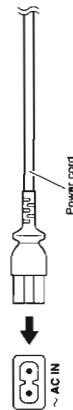
Connecting a Subwoofer System

Connect an (not supplied) signal cord between the SUB WOOFER OUT terminal and an external JVC subwoofer system, etc.



Connecting the AC Power Cord

Firmly insert the supplied AC power cord into the AC inlet on the back of the Unit.



CAUTIONS:

- ONLY USE THE JVC POWER CORD PROVIDED WITH THIS SYSTEM TO AVOID MALFUNCTION OR DAMAGE TO THE SYSTEM.
- BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE SYSTEM IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

Now you can plug the AC power cord into the wall outlet, and your System is at your command!!

COMPU PLAY

JVC's COMPU PLAY feature lets you control the most frequently used System functions with a single touch.

With One Touch Operation you can play a CD, an MD, or turn on the radio with a single press of the play button for that function. One Touch Operation turns the power on for you, then starts the function you have specified. If the System is not ready (no CD in place, for example), the System still powers on so you can insert a CD.

How One Touch Operation works in each case is explained in the section dealing with that function.

The COMPU PLAY buttons are:

On the Unit

- CD ► button
- TUNER BAND button
- MD ► button
- TAPE/AUX button

On the Remote Control

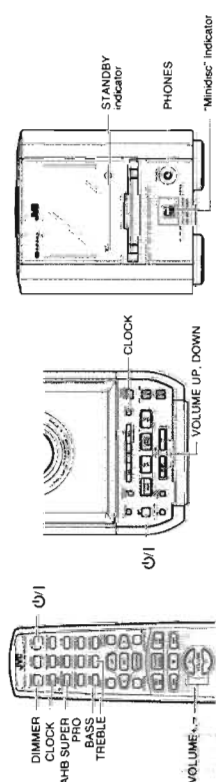
- CD ► button
- TUNER BAND button
- MD ► button
- TAPE/AUX button

AUTOMATIC POWER ON

The System automatically turns on with the following operation.

- When you press the CD ► button, the System automatically turns on and the CD holder opens to allow CD insertion. However, this operation does not change the function to CD.
- When you press the MD ► button to turn off the System, the CD holder will automatically close if it is opened.
- When you insert an MD, the System automatically turns on. However, this operation does not change the function to MD.

Common Operations



Turning the Power On and Off

Turning the System On

Press the button.

The display comes on and the STANDBY indicator goes out. The System comes on ready to continue in the mode it was in when the power was last turned off.

- For example, if the last thing you were doing was listening to a CD, you are now ready to listen to a CD again. If you wish, you can change to another source.
- If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

Turning the System Off

Press the button again.

The "STANDBY" indicator lights up and the display is blank, except for the clock display.



Adjusting the Volume

You can adjust the volume level between 0 and 50.

The VOLUME indicator on the display indicates the volume level.



Press the VOLUME UP button of the Unit to increase the volume or press the VOLUME DOWN button to decrease it.

OR

Press the VOLUME + button on the Remote Control to increase the volume or press the VOLUME - button to decrease it.

CAUTION: DO NOT start playing any source without first setting the VOLUME control to minimum position, as a sudden blast of sound can damage your hearing, speakers and/or headphones.

For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on headphones.

Reinforcing the Bass Sound (AHB SUPER PRO)

You can reinforce the bass sound to maintain rich, full bass at low volume (you can use this effect only for playback).

To get the effect, press the AHB (Active Hyper Bass) SUPER PRO button on the Remote Control.

The "BASS" indicator lights up on the display.

To cancel the effect, press the button again.

The "BASS" indicator goes out.

Tone Control (BASS/TREBLE)

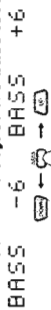
You can control the tone by changing the bass and treble.

BASS Control

You can adjust the bass level (low frequency range level) between -6 and +6. (0: Flat)

- Press the BASS button on the Remote Control.

Press the UP or DOWN button on the Remote Control to adjust the bass level.

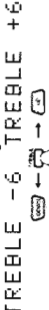


TREBLE Control

You can adjust the treble level (high frequency range level) between -6 and +6. (0: Flat)

- Press the TREBLE button on the Remote Control.

Press the UP or DOWN button on the Remote Control to adjust the treble level.



- The bass or treble level display goes out when the BASS or TREBLE button is pressed again or when nothing is done for about 6 seconds.

Showing the Time (CLOCK)

In Standby mode, the clock appears on the display.

When the System is turned on, you can display the clock at any time.

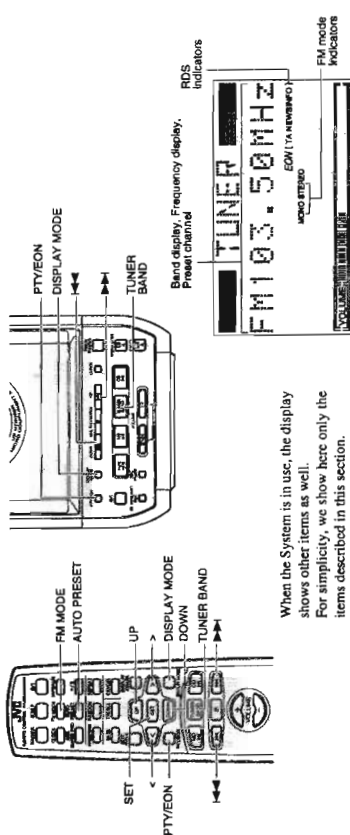
To display the clock, press the CLOCK button.

To light off the clock, press the CLOCK button again.

Note: To let work the clock, you need to set the clock beforehand.

(See "Setting the Clock" on page 22.)

Using the Tuner



When the System is in use, the display shows other items as well. For simplicity, we show here only the items described in this section.

You can listen to FM and AM (MW/LW) stations. Stations can be tuned in manually, automatically, or from preset memory storage.

- Before listening to the radio:
 - Check that both the FM and AM (MW/LW) antennas are correctly connected. (See page 3).

One Touch Radio

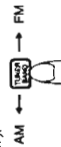
Just press the TUNER BAND button to turn on the System and start playing the station you were last tuned to.

- You can switch from any other sound source to the radio by pressing the TUNER BAND button.

Tuning in a Station

Press the TUNER BAND button.

The Band and Frequency will be last tuned to appear on the display. Each time you press the button, the band alternates between FM and AM (MW/LW).



Select a station using one of the following methods.

- Manual Tuning** Press the \leftarrow or \rightarrow button repeatedly to move from frequency to frequency until you find the station you want.

Auto Tuning

If you press and hold the \leftarrow or \rightarrow button for one second or more, the frequency changes down, or up, automatically until a station is found.

OR

Preset Tuning using the Remote Control (Possible only after presetting stations)

Select the desired preset number using the UP, DOWN, \rightarrow , and \leftarrow buttons on the Remote Control. After 1 second the display will show the preset number's band and frequency.

- UP button: Increases the preset number by 1.
- DOWN button: Decreases the preset number by 1.
- \rightarrow button: Increases the tenth digit for preset number.
- \leftarrow button: Decreases the tenth digit for preset number.

To cancel the presetting, press the CANCEL button in step 3 or 4.

To change the preset stations, repeat the same steps as above.

Auto Presetting

In each band, you can automatically preset FM-30, AM (MW/LW)-15 stations. Preset numbers will be allocated as stations are found, starting from the lowest station and moving up the frequency.



Select a band by pressing the TUNER BAND button.

Press the AUTO PRESET button on the Remote Control for more than two seconds.

Repeat steps 1-2 for the other band.

- If you want to change the preset stations, carry out the Manual Presetting for the desired preset numbers.

CAUTION: If the System is unplugged or if a power failure occurs, the preset stations will be erased after about 24 hours. If this happens, you will need to preset the stations again.

To Change the FM Reception Mode

When you are tuned in an FM broadcast, the "STEREO" indicator lights up and you can hear stereo effects.

If an FM stereo broadcast is hard to receive or noisy, you can select Monaural mode. Reception improves, but you lose any stereo effect.

Press the FM MODE button on the Remote Control so that the "MONO" indicator lights up on the display.



To restore the stereo effect, press the FM MODE button on the Remote Control so that the "MONO" indicator goes off.

Receiving FM Stations with RDS

You can use the RDS (Radio Data System) by using the buttons on the Unit or the Remote Control.

RDS allows FM stations to send additional signals with their regular programme signals. For example, the stations send their station names, and information about what type of programmes they broadcast, such as sports or music, etc. This unit can receive the following types of RDS signals:

PS (Programme Service): shows commonly known station names.

PTY (Programme Type): shows types of broadcast programmes.

RT (Radio Text): shows text messages the station sends.

TA (Traffic Announcement): shows traffic announcements being broadcast.

What information can RDS signals provide?

The display shows RDS signal information that the station sends.

To show the RDS signals on the display

Press the DISPLAY MODE button while listening to an FM station.

Each time you press the button, the display changes to show information in the following order:



PS (Programme Service):

While searching, "PS" appears, then station name is displayed. "NO PS" appears if no signal is sent.

PTY (Programme Type):

While searching, "PTY" appears, then broadcast programme type is displayed. "NO PTY" appears if no signal is sent.

RT (Radio Text):

While searching, "RT" appears, then a text message sent by the station is displayed. "NO RT" appears if no signal is sent.

Station Frequency:

Station frequency (non-RDS service)

Notes:

- If searching finishes at once, "PS", "PTY" and "RT" will not appear on the display.
- If you press the DISPLAY MODE button while listening to an AM (MW/LW) station, the display only shows station frequency.
- RDS is not available for AM (MW/LW) broadcasts.

On characters displayed

When the display shows PS, PTY or RT signals:

- The display cannot show accented letters. For example, "A" may represent accented "A's" like "A, A, A, A and A".

[Example]

A	AAAA	K	U	UUU	0	*	<
B	CCCC	L	V	VVV	1	+	>
C	EEEE	M	W	WWW	2	=	=
D	GGG	N	X	XXX	3	-	-
E	HHH	O	YYY	YYY	4	.	.
F	IIII	P	Z	ZZZ	5	/	/
G	JJJ	Q	AAA	AAA	6	^	^
H	KKK	R	AAA	AAA	7	~	~
I	LLLL	S	AAA	AAA	8	°	°
J	TTTT	T	AAA	AAA	9	°	°

To search for a programme by PTY codes

One of the advantages of the RDS service is that you can locate a particular kind of programme by specifying the PTY codes.

To search for a programme using PTY or TA codes:



Press the PTYEON button once while listening to an FM station.

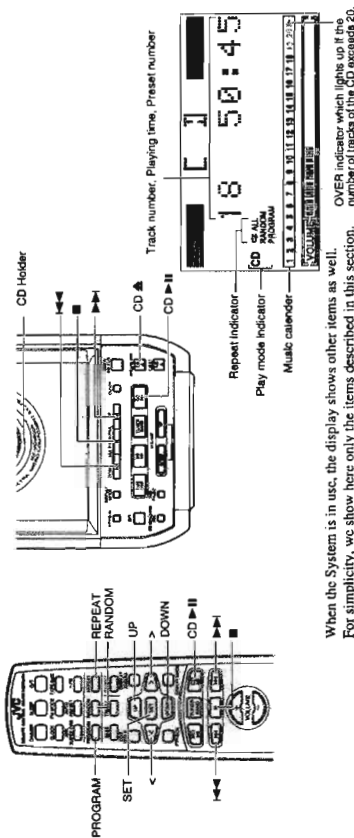
"SELECT PTY" appears on the display.

Select the PTY code using the \leftarrow or \rightarrow button (or UP or DOWN button on the Remote Control) within 10 seconds.

Each time you press the button, the display shows a category in the following order:

NEWS \leftrightarrow AFFAIRS \leftrightarrow INFO \leftrightarrow SPORT \leftrightarrow EDUCATE \leftrightarrow DRAMA \leftrightarrow CULTURE \leftrightarrow SCIENCE \leftrightarrow VARIED \leftrightarrow POP M

Using the CD Player



When the System is in use, the display shows other items as well. For simplicity, we show here only the items described in this section.

Basics of Using the CD Player-Normal Play

To Play a CD

Insert a CD.

Press the CD > II button.

The first track of the CD begins playing.

The track number that has been played disappears from the music calendar.

The CD Player automatically stops when the last track of the CD has finished playing.

To stop playing the CD, press the ■ button.

The following information for the CD is displayed.

Total track number

18

50:45

Play time

18 50:45

During playback, press the <<< or >>> button to select the track you want.

The selected track starts playing.

Press the <<< button once to skip to the beginning of the next track.

Press the >>> button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.

Search Play

Holding down the <<< or >>> button during playback, will fast forward/backward the CD so you can quickly find a particular passage in the track you are listening to.

To select a programme type



Press the PTYEON button twice while listening to an FM station.

"SELECT EON" appears on the display.

Select the programme type with the <<< or >>> button (or UP or DOWN button on the Remote Control) within 10 seconds.

The display shows a programme type in the following order:



TA: Traffic Announcement

NEWS: News

INFO: Programmes on medical service, weather forecast, etc.

OFF: EON off

Press the PTYEON button within 10 seconds again to set the selected programme type.

The selected programme type indicator lights up on the display, and the unit enters EON Standby mode.

The EON indicator lights up when tuned to a station which provides EON information.

If there is no station broadcasting the type of programme you have selected

The broadcast station being currently heard will continue to be heard.

When a station starts broadcasting the programme you have selected, this unit automatically switches to the station. The programme type (TA, NEWS or INFO) indicator starts blinking.

When the programme is over, this unit goes back to the currently selected station, but still remains in EON Standby mode.

Notes:

If the EON is in standby mode and the function (CD, MD, TAPE/AUX) switch is changed or the power is switched off, then the EON mode will be released. When the band is set to AM (MW/LW), the EON is not activated. When the band is set to FM again, the EON will be set to standby mode.

When the EON is being operated (i.e. the selected programme type is being received from the broadcast station) and if the <<< or >>> button is operated, the station will not switch back to the current selected station even after the programme ends. The programme type indicator remains in the display, indicating that the EON is in standby mode.

When the EON is in standby mode and a radio broadcast is being recorded, be careful because the EON may be activated and a different programme than the intended one may be recorded.

When the EON mode is not required, release the EON mode.

When the alarm signal is detected by EON, the station broadcasting the alarm is received with priority. "ALARM" is not displayed.

Caution

When the sound alternates intermittently between the station tuned in by the EON function and the current selected station, cancel the EON mode.

This does not constitute malfunction of the unit.

→ ROCK M → M.O.R.M → LIGHT M → CLASSICS → OTHER M → WEATHER → FINANCE → CHILDREN → SOCIAL A → RELIGION → PHONE IN → TRAVEL → LEISURE → JAZZ → COUNTRY → NATIONAL → OLDIES → FOLK M → DOCUMENT → TRAFFIC → NEWS

Press the PTYEON button within 10 seconds again.

While searching, the display alternates between "SEARCH" and the selected PTYEON code.

The unit searched preset stations and stops when it finds a station of the category you have selected, then tunes into that station.

If no programme is found, "NOT FOUND" appears on the display.

To continue searching after the first stop, press the PTYEON button again while the display indications blink.

To stop searching at any time during the process

Press the PTYEON button to stop search operation.

Note: Station will change from the current one.

Descriptions of the PTYEON Codes

NEWS: News

TRAFFIC: Topical programme expanding on the current news or affairs

INFO: Programmes on medical service, weather forecasts, etc.

SPORT: Sports events

EDUCATE: Educational programmes

DRAMA: Radio plays

CULTURE: Programmes on national or regional culture

SCIENCE: Programmes on natural sciences and technology

VARIED: Other programmes like comedies or ceremonies

POP M: Pop music

ROCK M: Rock music

M.O.R.M: Middle-of-the-road music (usually called "easy listening")

LIGHT M: Light music

CLASSICS: Classical music

OTHER M: Other music

WEATHER: Weather information

FINANCE: Reports on commerce, trading, the Stock Market, etc.

CHILDREN: Entertainment programmes for children

SOCIAL A: Programmes on social activities

RELIGION: Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics

PHONE IN: Programmes where people can express their views either by phone or in a public forum

TRAVEL: Programmes about travel destinations, package tours, and travel ideas and opportunities

LEISURE: Programmes concerned with recreational activities such as gardening, cooking, fishing, etc.

JAZZ: Jazz music

COUNTRY: Country music

NATIONAL: Current popular music from another nation region, in that country's language

OLDIES: Classic pop music

FOLK M: Folk music

DOCUMENT: Programmes dealing with factual matters, presented in an investigative style

TRAFFIC: Broadcasts which carry traffic announcements

To temporarily switch to a broadcast programme of your choice

EON (Uninanced Other Networks) is another convenient RDS service that allows this unit to switch temporarily to a broadcast programme of your choice (NEWS, TA or INFO) from the currently selected station, except if you are listening to a non-RDS station (all AM (MW/LW) stations or some FM stations).

If an FM station does broadcast EON information, EON cannot be activated.

Programming the Playing Order of the Tracks

You can program the playing order of the tracks using the Remote Control.

- You can program up to 20 tracks in any desired order including the same tracks.
- You can only make a program when the CD Player is stopped.

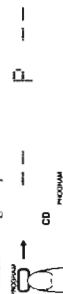
1. Insert a CD.

2. Press the CD >II button.

3. Press the > button to stop the CD.

4. Press the PROGRAM button.

The System enters the programming mode and the "CD PROGRAM" indicator lights up.

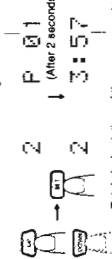


5. Press the UP, DOWN, >, or < button to select the track to program.

- UP button: Increases the track number by 1.
- DOWN button: Decreases the track number by 1.
- > button: Increases the tenth digit of the track number.
- < button: Decreases the tenth digit of the track number.
- Example: For track 2, press the UP button twice. For track 12, press the > button, then press the UP button twice (or simply press the UP button 12 times).

6. Press the SET button.

Program order number



Total playback time of the programmed tracks

7. Repeat steps 5 and 6 to select the other tracks for the program.

You can see the total playback time of programmed tracks on the display. Also, you can see the programmed tracks on the music calendar.

8. Press the CD >II button.

The System plays the tracks in the order you have programmed them.

- You can skip to a particular program track by pressing the < or > button during Program Play.

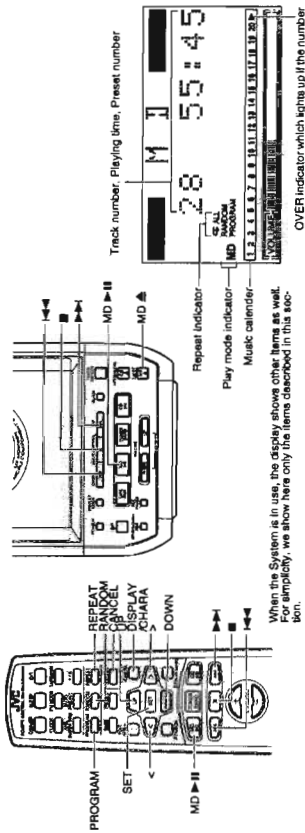
To confirm the programmed tracks while the CD player is stopped, press the < or > button; the tracks making up the program will successively be displayed in the programmed order.

To delete all the tracks in the program, press the > button repeatedly until all the tracks are cleared. Turning off the power or pressing the CD >II button to open the CD holder will also clear the programmed tracks.

To exit the program mode once, while the CD Player is stopped, press the PROGRAM button to light off the "CD PROGRAM" indicator.

Note: If the total playback time of the programmed tracks exceeds 99 minutes 59 seconds, the total playback time will go out on the display.

Using the MD Player (Listening to an MD)



You can use Normal, Random, Program or Repeat Play in the same way as for CD Player. Repeat Play can repeat all the tracks or just one of the tracks on the MD.

Here are the basic things you need to know to play an MD and locate the different tracks on it.

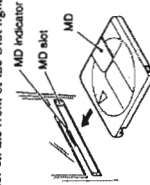
The Quickest Way To Start an MD is With the One Touch Operation

- Press the MD >II button.
- The power is automatically turned on. If an MD is already inserted, it will start playing from the first track.
- If no MD is inserted, "NO DISC" appears on the display and the MD Player remains in Stop mode.

To Insert an MD

- Insert an MD into the MD slot.
- Insert it with its label side up and the > or < mark of the MD directs as shown in the figure.

The MD is automatically drawn inside the MD Player and the red MD indicator on the front of the Unit lights up.



- You can insert an MD while listening to the other source.

Basics of Using the MD Player - Normal Play

To Play an MD

Insert an MD.

The MD Indicator lights up.

Press the MD >II button.

The first track of the MD begins playing. (The MD indicator stays lit.)

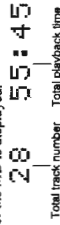


- The tracks in the MD appear on the music calendar.
- The track number that has been played disappears from the music calendar.
- The MD Player automatically stops when the last track of the MD has finished playing.

If the MD has the disc title, the disc title is displayed before playing the first track.

- If the track has the title, the track title will be displayed before playing the track.
- You can give the disc title and the track title as required. (See page 19.)

To stop playing the MD, press the > button. The following information for the MD is displayed.



Total track number Total playback time

To stop playing and remove the MD, press the MD >II button to eject the MD.

To pause, press the MD >II button. The playback time blinks on the display.

To cancel pause, press the same button again. Play continues from the point where it was paused.

Displaying the Disc Title

You can display the disc title of the MD during Stop mode. If the disc title is not given yet, "NO TITLE" appears.

During Stop mode, press the DISPLAY/CHARA button on the Remote Control.

Each time you press the button, the display changes as follows.

Total track number and total playback time → Disc title → Remaining time (recordable capacity) of MD (e.g. REM. 23:00) → back to the beginning

To Select a Track or Passage within a Track

During playback, press the < or > button to select the track you want.

The selected track starts playing.

- Press the > button once to skip to the beginning of the next track.
- Press the < button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.

Note: If the total playback time of the programmed tracks exceeds 99 minutes 59 seconds, the total playback time will go out on the display.

- If the MD becomes full before pressing the **■** button, the recording will be terminated after indicating "UTOC-writing".

Checking the Remaining Time of the MD

You can see the recordable remaining time of the MD in Stop or Recording mode.

Press the **DISPLAY/CHARA** button on the Remote Control, the remaining time appears on the display.

Track marking

- Whenever playback advances from one track to another during digital recording, the track number at the MD side is automatically incremented by 1.
- Whenever no sound at the playback side continues for 3 or more seconds during analog recording, the track number at the MD side is automatically incremented by 1.
- The track number at the MD side is automatically incremented by 1 by pressing the **SET** button on the remote control at the desirable location during analog recording (tuner or the equipment connected to the AUX-1).

CD Synchronizing Recording

Everything on the CD goes onto the MD in the order it is on the CD, or according to the order you have set in the program. (See page 12 for programming the CD tracks.)

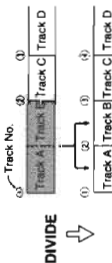
- Insert an MD with its label side up.

Using the MD Player (Editing)

In addition to its recording and play functions, the MD Player comes with editing functions. You can divide, join, move, or erase the recorded tracks in the MD as required. Also, you can give a disc title to the MD and track titles to the tracks in the MD.

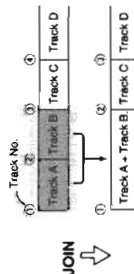
Dividing tracks (DIVIDE function)

This involves adding a track mark (see Note) at some point during the track which is to be made into the start of an additional track so that the original track is divided into two tracks.



Joining tracks (JOIN function)

This involves erasing a track mark and turning two adjoining tracks into one track.



- Insert a CD. (See page 11.)

- Press the **CD > II** button and then press the **■** button to stop the CD.

- Press the **CD SYNCHRO REC** button on the Unit.

- Digital recording from the CD to the MD starts.
- The track number for the MD increases synchronously with the track on the CD.
- After the CD Player has played the entire CD or all the programmed tracks, "UTOC-writing" appears on the display, indicating that the recording is successfully completed. Then, the MD and the CD stops.
- When the MD becomes full before the CD Player finishes playback, the MD stops after indicating "UTOC-writing".

One Track Recording

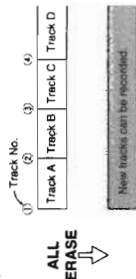
- Insert an MD with its label side up.
- Play the track on the CD you wish to record.

- Press the **CD SYNCHRO REC** button on the Unit.

The CD Player returns to the beginning of that track and the track is recorded on the MD. After recording, the CD Player and MD Player automatically stop.

Erasing all the tracks (ALL ERASE function)

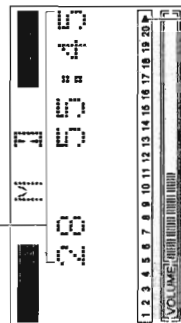
All the tracks can be erased at once without recording fresh material over them.



Note: Track marks

These marks are provided to locate the start of each track. Whatever lies between one track mark and the next is considered to be a track, and the numbers of the tracks (called "track numbers") are displayed in the sequence in which they are to be played.

Track number, Playing time, Preset number



OVER indicator which lights up if the number of tracks of the MD exceeds 20.

- Example: for track 2, press the **UP** button twice. For track 12, use the **>** button to rapidly increase the track number (or simply press the **UP** button 12 times.)

- Press the **SET** button at the point where the track is to be divided.

POSITION 0 OK?

- The selected track is divided into two tracks and the track number in the music calendar will increase by 1.
- The recording lasting for 4 seconds starting where the track was divided is repeatedly played for your reference.
- Movement is possible within the POSITION: 128 to 128 range (about 8 seconds before or after the position). The recording lasting for 4 seconds starting from the position to which the dividing point has been moved is repeatedly played.

- Press the **SET** button.

Alternates

PUSH → EDIT/TITLE

- Press the **EDIT/TITLE** button.

The "EDIT" indicator disappears on the display.

- Press the **MD > II** button to complete editing.

The MD is ejected after "UTOC-writing" is displayed.

- You can also complete editing operation by pressing the **CD I** button to turn off the power.

To cancel the operation, press the **CANCEL** button in step 4, 5, or 7 until the display returns to the original display before editing the track.

Dividing Tracks (DIVIDE Function)

- Use the Remote Control to carry out this function.

- Insert an MD to be edited with its label side up.

- Press the **MD > II** button and then **■** button to set the function to MD.

The track numbers and total playback time are displayed.

- Press the **EDIT/TITLE** button until "DIVIDE" is displayed.

The "EDIT" indicator appears on the display.
DIVIDE → JOIN → MOVE → ERASE → ALL ERASE → DISC TITLE → TITLE → (Back to the beginning)

- Press the **SET** button.

Playback time of the track



- Select the track number to be divided.

The selected track is automatically played.

To select the track number, press the **UP**, **DOWN**, **>**, or **<** button.

UP button: Increases the track number by 1.

DOWN button: Decreases the track number by 1.

> button: Rapidly increases the track number.

< button: Rapidly decreases the track number.

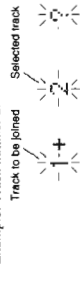
Note: While "UTOCwriting" is displayed, do not disconnect the power cord or subject the Unit to the vibration to avoid incorrect recording.

Joining Tracks (JOIN Function)

- Use the Remote Control to carry out this function.
- Insert an MD to be edited with its label side up.**
- Press the MD \blacktriangleright II button and then \blacksquare button to set the function to MD.**
The track numbers and total playback time are displayed.
- Press the EDIT/TITLE button until "JOIN ?" is displayed.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)



- Press the SET button.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)



- Press the SET button.**
The "EDIT" indicator appears on the display.
PUSH \rightarrow EDIT/TITLE

- Press the EDIT/TITLE button.**
The selected track and the previous track are joined and the track numbers in the music calendar will decrease by 1.
Then the "EDIT" indicator disappears on the display.

- Press the MD Δ button to complete editing.**
The MD is ejected after "UTOCwriting" is displayed.

You can also complete editing operation by pressing the button to turn off the power.

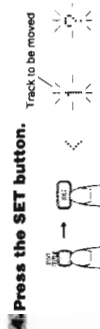
To cancel the operation, press the CANCEL button in step 4, 5, or 6 until the display returns to the original display before editing the track.

Note: While "UTOCwriting" is displayed, do not disconnect the power cord or subject the Unit to the vibration to avoid incorrect recording.

Moving Tracks (MOVE Function)

- Use the Remote Control to carry out this function.
- Insert an MD to be edited with its label side up.**
- Press the MD \blacktriangleright II button and then \blacksquare button to set the function to MD.**
The track numbers and total playback time are displayed.

- Press the EDIT/TITLE button until "MOVE ?" is displayed.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)



- Select the track number to be moved.**
To select the track number, press the UP, DOWN, \blacktriangleright , or \blacktriangleleft button. (For details, see step 5 in "Dividing Tracks (DIVIDE Function)".)



- Press the SET button.**
The "EDIT" indicator appears on the display.
PUSH \rightarrow EDIT/TITLE

- Select the destination to which the track is to be moved.**
To select the track number, press the UP, DOWN, \blacktriangleright , or \blacktriangleleft button.
In this example, the 12th track will move to the 14th track. (Since the 12th track is lost, the upper tracks than the 12th one will be shifted toward the younger tracks.)



- Press the SET button.**
The "EDIT" indicator appears on the display.
PUSH \rightarrow EDIT/TITLE

- Press the EDIT/TITLE button.**
The "EDIT" indicator appears on the display.

- Press the MD Δ button to complete editing.**
The MD is ejected after "UTOCwriting" is displayed.

You can also complete editing operation by pressing the button to turn off the power.

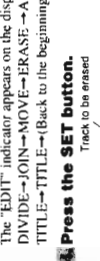
To cancel the operation, press the CANCEL button in step 4 through 8 until the display returns to the original display before editing the track.

Note: While "UTOCwriting" is displayed, do not disconnect the power cord or subject the Unit to the vibration to avoid incorrect recording.

Erasing Tracks (ERASE Function)

- Use the Remote Control to carry out this function.
- Insert an MD to be edited with its label side up.**

- Press the MD \blacktriangleright II button and then \blacksquare button to set the function to MD.**
The track numbers and total playback time are displayed.
- Press the EDIT/TITLE button until "ERASE ?" is displayed.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)



- Press the SET button.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)



- Press the SET button.**
The "EDIT" indicator appears on the display.
PUSH \rightarrow EDIT/TITLE

- Press the MD Δ button to complete editing.**
The MD is ejected after "UTOCwriting" is displayed.

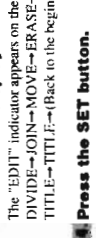
You can also complete editing operation by pressing the button to turn off the power.

To cancel the operation, press the CANCEL button in step 4, 5, or 6 until the display returns to the original display before editing the track.

Note: While "UTOCwriting" is displayed, do not disconnect the power cord or subject the Unit to the vibration to avoid incorrect recording.

Erasing all the Tracks (ALL ERASE Function)

- Use the Remote Control to carry out this function.
- Insert an MD to be edited with its label side up.**
- Press the MD \blacktriangleright II button and then \blacksquare button to set the function to MD.**
The track numbers and total playback time are displayed.
- Press the EDIT/TITLE button until "ALL ERASE ?" is displayed.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)



- Press the SET button.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)

- Press the EDIT/TITLE button.**
All the tracks in the MD are erased and "BLANK DISC" is kept displayed.
The "EDIT" indicator disappears on the display.
To cancel the all erasing, press the CANCEL button in step 4.
To remove the MD, press the MD Δ button.
Note: While "UTOCwriting" is displayed, do not disconnect the power cord or subject the Unit to the vibration to avoid incorrect recording.

Giving Titles to MD (DISC TITLE/TITLE Function)

You can give a disc title to the MD and a track title to the track in the MD. Any title name can be given up to 32 characters using the provided character sets.
The disc title you have given will be displayed in the following cases.

- When you insert the MD while the function is set to MD.
- When you press the MD \blacktriangleright II button and then \blacksquare button to set the function to MD.

Once you have given the title to the tracks, the track title will be displayed before playing the track.

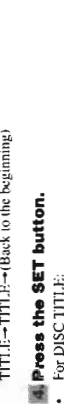
- Since the procedure to give title is the same as for the disc title and track title except for step 4, both functions are explained together here.
- Use the Remote Control to carry out these functions.

- Insert an MD to be edited with its label side up.**

- Press the MD \blacktriangleright II button and then \blacksquare button to set the function to MD.**
The total track numbers and total playback time are displayed.

- Press the EDIT/TITLE button until "DISC TITLE ?(for track title)" is displayed.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)

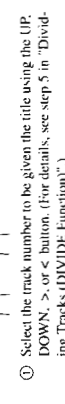
- Press the SET button.**
For DISC TITLE:



- Press the SET button.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)



- Press the SET button.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)



- Press the SET button.**
The "EDIT" indicator appears on the display.
DIVIDE \rightarrow JOIN \rightarrow MOVE \rightarrow ERASE \rightarrow ALL ERASE \rightarrow DISC
TITLE \rightarrow TITLE \rightarrow (Back to the beginning)



Input a preferred title (up to 32 characters).

Use the following buttons to input a title.

[Title editing buttons and their functions] (see below)

Button	Function
DISPLAY/CHARA	Changes the type of characters to be input as follows. Upper-case letters and symbols ↓ Lower-case letters and symbols ↓ Numbers ↓ Moves the cursor for the character to be input to the right. ↓ Moves the cursor for the character to be input to the left. ↓ Selects the characters in the upper row in the character set. e.g. FGHIJ → ABCDE ↓ Selects the characters in the lower row in the character set. e.g. ABCDE → FGHIJ ↓ Moves the cursor for the title name to the right. ↓ Moves the cursor for the title name to the left.
UP	
DOWN	
→	
←	

Example: When input the title "N(space)"

- Display the letter N to be input.
Press the > button until the letter N is displayed.
- Press the DOWN button until "N(space)" is displayed.
- Press the SET button.

[Character Layout Table]

You can write album or song names to a disc, using the following characters:

Uppercase letters

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y
Z				
(space)	!	"	#	\$
%	&	'	()
*	+	,	-	.
/	:	;	<	=
>	?	@	_	,

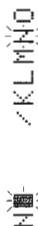
Lowercase letters

a	b	c	d	e
f	g	h	i	j
k	l	m	n	o
p	q	r	s	t
u	v	w	x	y
z				
(space)	!	"	#	\$
%	&	'	()
*	+	,	-	.
/	:	;	<	=
>	?	@	_	,

Numbers

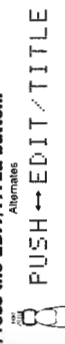
0	1	2	3	4
5	6	7	8	9

The letter N is now displayed in the title area.



- Select "space" and press the SET button.
 - Press the DISPLAY/CHARA button until the numbers are displayed.
 - Select "1" and press the SET button.
 - The title name "N(space)" will be displayed.
- Editing the Title Name:
- If the wrong character has been input, clear it using the CANCEL button.
 - To clear a particular character which has been input, use the ← or → button to align the cursor with the character, and press the CANCEL button. Then, select the correct character and press the SET button.

Press the EDIT/TITLE button.



Press the EDIT/TITLE button again.

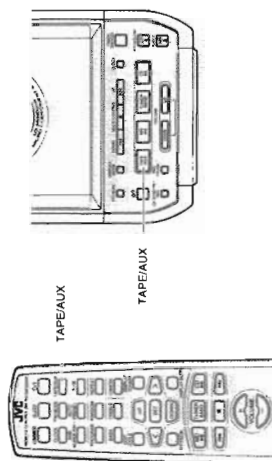
The "EDIT" indicator disappears on the display.

Press the MDA button to complete editing.

- The MD is ejected after "TUTOCwriting" is displayed.
- You can also complete editing operation by pressing the CD button to turn off the power.

To cancel the operation, press the CANCEL button in step 6. Note: While "TUTOCwriting" is displayed, do not disconnect the power cord or subject the Unit to the vibration to avoid incorrect recording.

Using External Equipments



Listening to External Equipment

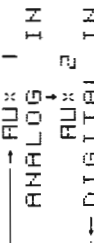
You can listen to external equipment.

- First make sure that the external equipment is properly connected to the System. (See page 4).

1. Set the VOLUME control to the minimum position.

2. Press the TAPE/AUX button.

The display changes with each press of the button, as shown below.



When the "AUX 1 ANALOG IN" is selected:

You can use the external equipment connected to the LINE IN (AUX1) terminals of the System, such as cassette deck, turntable, etc.

- To listen to the external equipment, start playing the external equipment.

When the "AUX 2 DIGITAL IN" is selected:

You can use the external equipment connected to the OPTICAL DIGITAL IN (AUX2) terminal of the System, such as CD player, etc.

- To listen to the external equipment, start playing the external equipment.

Adjust the VOLUME control to the desired listening level.

Apply sound effects, if you wish.

- Press the AHB Super PRO button to reinforce the bass sound.
- Press the BASS/TREBLE button to control the tone. (See "Tone Control" on page 7.)

Note: For operation of the external equipment, refer to its Instructions.

Recording to External Equipment

You can record the System's source to external equipment which is connected to the LINE OUT terminals of the System, such as cassette deck, etc.

- First make sure that the external equipment is properly connected to the System. (See page 4).

1. Play the System's CD Player, MD Player, or tune into a station.

- The recording level is not affected by the VOLUME level set by the System. Also it is not affected by the sound effects.

Note: For operation of the external equipment, refer to its Instructions.

Setting the SLEEP Timer

Use the Sleep Timer to turn the System off after a certain number of minutes when it is playing. By setting the Sleep Timer, you can fall asleep to music and know that your System will turn off by itself rather than play all night.

- You can only set the Sleep Timer when the System is on and a source is playing.

1. Play a CD, MD, or tune in to the desired station.

2. Press the SLEEP button on the Remote Control.

The "SLEEP" indicator lights up.

3. Set the length of time you want the source to play before shutting off.

Each time you press the SLEEP button, it changes the number of minutes shown on the display in this sequence:
→ 30 → 60 → 90 → 120 → Cancelled → (back to the beginning)

After setting the number of minutes for the Sleep Timer, the display will stop blinking and return to the display as before setting the Sleep Timer. (The display is dimmed.)

The System is now set to turn off after the number of minutes you set.

To Confirm the Sleep Time

When the SLEEP button is pressed, the remaining sleep time is displayed. Wait until the display returns to the original display.

To Cancel the Sleep Timer Setting

Press the SLEEP button until the "SLEEP" indicator goes out on the display.

Turning off the System also cancels the SLEEP Timer.

■ If you are setting the Daily Timer, the System will be turned on at the set time to wake you up.

Press the TIMER/SNOOZE button on the Unit.

The timer setting is completed and the display returns to the display before you set the timer. The timer indicator remains lit.

7. Before turning off the System, prepare the music source selected in step 4.

TUNER REC: Tune in to the desired station.

CD: Insert a CD.

MD: Insert an MD.

8. Press the \odot button to turn off the System.

Timer indicator goes out on the display.

To re-activate the cancelled timer, press the TIMER/SNOOZE button to light the timer indicator. Then, press the TIMER/SNOOZE button until the display returns to the original display.

To confirm the timer settings, cancel the timer once by pressing the TIMER/SNOOZE button. Then, press the TIMER/SNOOZE button repeatedly, to see the current timer settings (ON time, OFF time, source, and volume).

To change the timer setting, repeat the setting procedure from the beginning.

- When the timer turns on, the "Timer" indicator starts blinking and the volume level gradually increases from 0 (zero) to the preset level, except when you set the volume level to "...". In step 5.

CAUTION: If the System is unplugged, or a power failure occurs, the timer setting will be lost. You will need to reset the clock first, then the timer.

5-Minute Snoozing

When the timer turns on the music source you can, if you wish, activate the 5-minute snoozing function to temporarily stop playback.

Press the TIMER/SNOOZE button on the Unit.

The "SNOOZE" indicator lights up on the display and the power is turned off for five minutes for snoozing.

Information on MDs (Minidisks)

This is a new digital audio disc format: it has a diameter of 64 mm and enables up to 74 minutes of playback and recording.

Playback-only MD

This is the type used for commercially-available pre-recorded MDs, on which recording cannot be done. Like a CD, data is recorded based on the presence or absence of small indentations called pits. A disc recorded with this format is called an "optical disc."

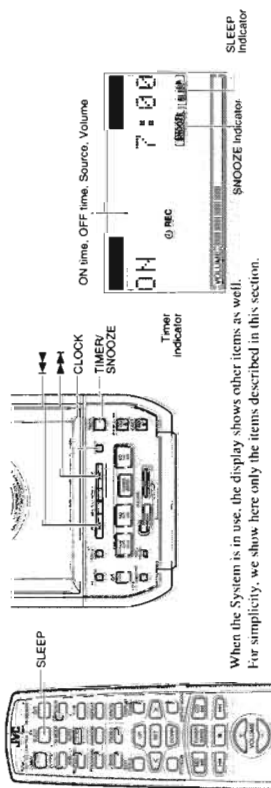


Recordable MDs

These are the so-called "blank" MDs you can use to make your own recordings. Data is recorded by magnetism, which is easily processed, so that recording can be done again and again. By using a laser to heat the disc, the magnetism is erased and the magnetic head records the new data. Discs with this type of recording method are called magneto-optical (MO) discs.



Using the Timers



When the System is in use, the display shows other items as well. For simplicity, we show here only the items described in this section.

The timers let you control listening and recording functions automatically.

Setting the Clock

- When you plug the AC power cord into the wall outlet, the time indication blinks on the display.
- You can set the clock whether the System is on or off.

Note:

- The clock must be correctly set for the timers to work.
- The procedure must be completed within two minutes. Otherwise, the setting is cleared and must be repeated from the beginning.



Press the CLOCK button on the Unit for more than two seconds.

The time indication rapidly blinks on the display.

Press the \blacktriangleright or \blacktriangleleft button on the Unit to set the time.

Pressing the \blacktriangleright button moves the time forwards and pressing the \blacktriangleleft button moves it backwards. Hold down the button to move the time in 10-minute intervals.

Press the CLOCK button.

The selected time is set and the seconds start counting from 0.

CAUTION: If there is a power failure, the clock loses its setting after about 20 minutes. "0:00" blinks on the display and the clock must be reset.

Setting the Daily Timer

Once you have set the Daily Timer, the timer will be activated at the same time every day. It can be cancelled and re-activated whenever you wish.

The Timer indicator on the display shows when the Daily Timer you have set is in effect.

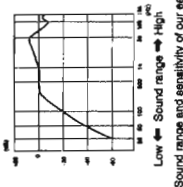
Note: Perform each setting within 30 seconds. Otherwise, setting is cleared and the procedure must be repeated from the beginning.

1. Press the \odot button to turn on the System.

2. Setting the ON time (Example: 12:15).

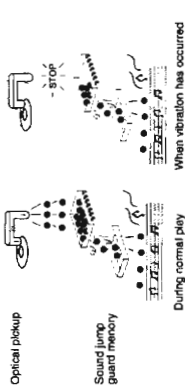
ATRAC (Adaptive Transform Acoustic Coding)

Within recordings, there are sounds which cannot be readily heard. For example, as the volume decreases, high-pitched sounds and low-pitched sounds become difficult to hear. Also, if a quiet sound comes at the same time as or just after a loud sound, it will not be heard. With Minidiscs, data is compressed using a technology called ATRAC (Adaptive Transform Acoustic Coding) which selectively chooses sounds based on human sense of hearing characteristics. With this technology, the recorded data is about one-fifth the volume of the original data, allowing it to fit on a compact minidisc.



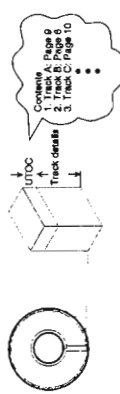
Sound skip guard memory

With the minidisc, the data of the track being played can be temporarily stored up using a function called "sound skip guard memory". Even when data cannot be collected properly from the disc due to shaking or vibrations, information is stored in the "sound skip guard memory"; so that there is no break in the sound which is actually delivered.



UTOC (User Table Of Contents)

In a minidisc, apart from the recorded tracks, there is the "UTOC". In this area, information such as the position where each track is recorded, the track divisions, and track order are listed. When music search is done, the UTOC is consulted, and the tracks are quickly found and played back. When editing is done, only the UTOC is changed, so there is no need to rerecord the tracks.



MD (Minidisc) Error Messages

Error message	Meaning	Action
BLANK DISC	A disc has been inserted with nothing recorded on it.	Except when making a new recording, replace the disc with one which has been recorded on.
CANNOT JOIN	You have tried to join tracks which cannot be joined.	This is a limitation of the minidisc system. See "Minidisc limitations" on page 25.
DISC ERROR	There is a problem (damage) with the disc.	Replace the disc.
DISC FULL	There is not enough space left on the disc.	Replace the disc with another recordable MD.
DISC PROTECTED	There are over 254 tracks.	Slide the accidental erasure protection tab. (So that the hole is covered.)
EMERGENCY STOP	The disc is in accidental erasure protection mode.	Stop the disc by pressing the ■ button and redo the operation.
NO DISC	A malfunction occurred during recording.	Insert a disc into the unit.
NON AUDIO CANNOT COPY	There is no disc in the unit.	Stop recording.
PLAYBACK MD	You have tried to digitally dub a CD-ROM.	Replace the disc with a recordable MD.
TRACK PROTECTED	You have tried to record or edit on a playback-only disc.	This unit cannot undo track protection. Undo the protection using the appliance that created it.
SCMS CANNOT COPY	The track is protected.	Dub using analogue input (LINE IN).
DIGITAL IN UNLOCK	You have tried to make a copy of a copy by digital dubbing.	Connect the digital cable securely.
	The digital cable is disconnected.	

Minidisc limitations

The minidisc records information in an original format that differs from that of conventional cassette tapes or DATs. Since there are some limitations with this recording format, the following types of conditions may arise. These conditions are not malfunctions.

Condition	Cause
"DISC FULL" is displayed, even though the possible recording time is not used up.	With the minidisc, there is a maximum number of tracks which can be recorded, regardless of time. More than 254 tracks cannot be recorded on a disc.
"DISC FULL" is displayed, even though the number of tracks and recording time are not at the limit.	When parts of the disc are erased and re-recorded, blank spots are created on the disc. When recording on such a disc, one track of data is divided and recorded in the blank areas. During replaying, when these divided parts become numerous, the "DISC FULL" message may be displayed. When a part of 8 seconds or less is created by division, that track cannot be joined by the JOIN function, and even if it is erased, the remaining usable time on the disc does not increase. Tracks divided into small pieces may skip when fast forward or fast rewind is done.
The JOIN function sometimes doesn't work.	
The remaining usable time on the disc doesn't increase even when tracks are erased.	
The sound skip during fast forward or fast rewind.	
The amount of recorded time on the disc added to the amount of remaining time falls short of the disc's total possible recording time.	Minidiscs must have at least 2 seconds of continuous space in order to record. For this reason, the actual recording time of discs with a lot of short blank areas becomes shorter.

Rules of Digital Dubbing

The following rules regarding copyright exist for dubbing to MDs from CDs or DATs through digital terminals.

SCMS (Serial Copy Management System)

Minidiscs can record clear sound with low loss of quality from CDs or DATs through each component's digital input/output terminal. However, minidiscs are set up so that a disc recorded in this way cannot be recorded onto another minidisc through digital input/output terminals. In other words, you can not make a copy of a copy. This rule is called SCMS (Serial Copy Management System).

The recorder is designed in compliance with this rule. If you try to make a copy of a copy, the error message "SCMS CANNOT COPY" is displayed, and dubbing can not be done.



It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

Troubleshooting

- If you are having a problem with your System, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the System has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	<ul style="list-style-type: none"> • Connections are incorrect, or loose. • Headphones are connected. 	<ul style="list-style-type: none"> • Check all connections and make corrections. (See pages 4-5.) • Disconnect the headphones.
Poor radio reception	<ul style="list-style-type: none"> • The antenna is disconnected. • The AM Loop Antenna is too close to the System. • The FM Wire Antenna is not properly extended and positioned. 	<ul style="list-style-type: none"> • Reconnect the antenna securely. • Change the position and direction of the AM Loop Antenna. • Extend FM Wire Antenna to the best reception position.
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
The MD cannot be inserted.	An MD has already been inserted.	Press the MD button to eject the inserted MD and insert a new MD.
Recording cannot be made on MD.	The accidental erasure prevention knob of the MD is set to the open position.	Set it to the close position.
Timer fails to start.	Present time is not correct.	Set the time correctly.
Unable to operate the Remote Control.	<ul style="list-style-type: none"> • The path between the Remote Control and the sensor on the Unit is blocked • The batteries have lost their charge. 	<ul style="list-style-type: none"> • Remove the obstruction. • Replace the batteries.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the System then plug it back in

Care And Maintenance

Handle your CDs and MDs carefully, and they will last a long time.

Compact Discs

- Only CDs bearing this mark can be used with this System. However, continued use of irregular shape CDs (heart-shape, oval-shape, etc.) can damage the System.



- Remove the CD from its case by holding it at the edges while pressing the case's center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.



- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.



- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line from center to edge.



CAUTION: Do not use any solvent (for example, conventional record cleaner, spray thinner, benzene, etc.) to clean a CD.

MDs (Minidiscs)

- Do not open the shutter. Since the shutter is locked to prevent it from opening, forcing it to open will break the disc.



Moisture Condensation

Moisture may condense on the lens inside the System in the following cases:

- After turning on heating in the room.
- In a damp room.
- If the System is brought directly from a cold to a warm place.



Should this occur, the System may malfunction. In this case, leave the System turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

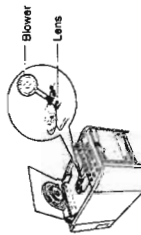
General Notes

- In general, you will have the best performance by keeping your CDs, MDs, and the mechanism clean.
- Store CDs and MDs in their cases, and keep them in cabinets or on shelves.
- Keep the system's CD holder closed when not in use.

Cleaning the lens

If the lens in the CD pickup is dirty, dropout, etc., could degrade sound.

- Open the CD holder and clean the lens as shown.
- Use a blower (available from a camera store) to blow dust off the lens.



- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.



The cabinet of the speaker is coated with high-grade polished paint. When dirt such as a fingerprint, dust, etc. is stuck to the cabinet, first, dust the coating surface with the attached polishing cloth. Next, lightly wipe off the dirt.

If the polishing cloth is dirty, wash it using a synthetic detergent.

Specifications

Amplifier

Output Power 30 W (15 W + 15 W) at 4 ohms (Max.)
20 W (10 W + 10 W) at 4 ohms (10% THD)

Input Sensitivity/Impedance (1 kHz)

LINE IN (AUX 1) 500 mV/60 kohms
Optical In -24 dBm -15 dBm

Output Sensitivity/Impedance (1 kHz)

LINE OUT 500 mV/5 kohms
Subwoofer 0 - 144 mV/30 kohms
Speaker terminals 4 - 16 ohms
Phones 16 ohms - 1 kohms

MD Player

Wow And Flutter Unmeasurable

CD Player

Wow And Flutter Unmeasurable

Tuner

FM Tuner
Tuning Range 87.5 - 108.0 MHz

AM Tuner

Tuning Range (MW) 522 - 1,629 kHz
(LW) 144 - 288 kHz

Speaker Specifications

(each unit) Speakers 8 cm cone
Impedance 4 ohms

Dimensions 120 × 160 × 190 mm (W/H/D)

Mass Approx. 1.3 kg

General

Dimensions 380 × 164 × 301 mm (W/H/D)

Mass Approx. 6.4 kg

Accessories

Power Cord (1)

AM Loop Antenna (1)

Remote Control (1)

Batteries R6 (SUN-3)/AA (15F) (2)

FM Wire Antenna (1)

Speaker Cords (2)

Polishing Cloth (1)

Power Specifications

Power Requirements AC 230 V ~, 50 Hz

Power Consumption 30 watts (power on mode)

5 watts (in Standby mode)

Design and specifications are subject to change without notice.

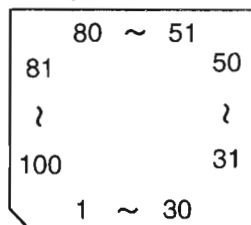
UX-MD9000R

-MEMO-

Description of Major ICs

■MN101C15FAK1(IC701):System controller

1.Terminal Layout

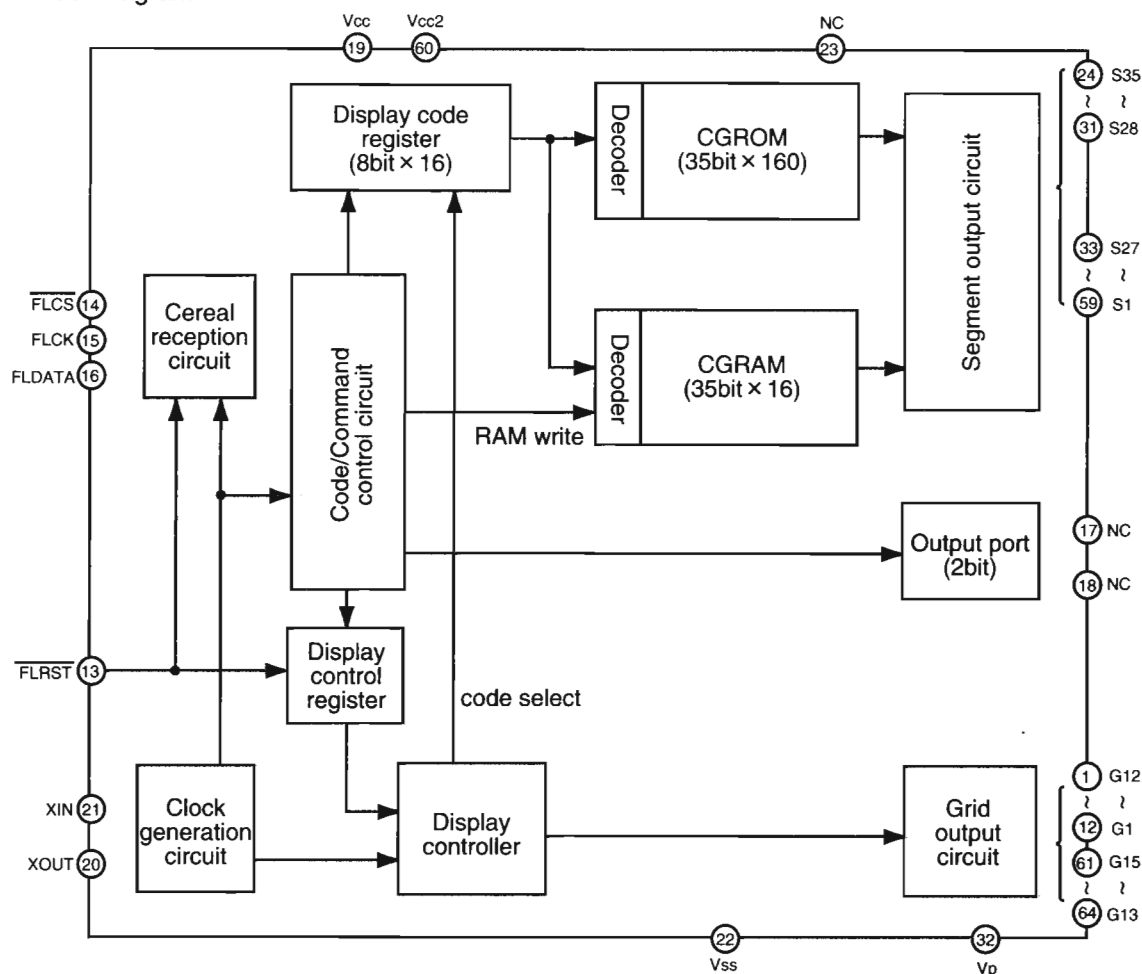


2.Pin Function

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	VREF-	-	Power supply.	39	TUST	O	Status signal output to IC2.
2	LOCK	I	Input terminal detects current of CD Door driver. (The door is reversed)	40	MPX	I	Detection of FM stereo.
3	KEY0	I	Key control signal input 0.	41	MDMUTE	O	MD mute signal output.
4	KEY1	I	Key control signal input 1.	42	LOMUTE	O	Line out mute signal output.
5	SAFETY1	I	Detection 1 for abnormal power voltage.	43	SCK	-	Pull up.
6	SAFETY2	I	Detection 2 for abnormal power voltage.	44	MTS	O	CD door motor speed (L=normal,H=slow)
7	NC	-	Non connect.	45	OPEN	I	CD door open detection switch.
8	VERSION	I	Setting according to each version. (Clock display,Setting the tuner,MD title input)	46	CLOSE	I	CD door close detection switch.
9	NC	-	Non connect.	47	NC	-	Non connect.
10	VREF+	-	Power supply.	48	MT0	O	CD door motor control signal output.
11	VDD	-	Power supply.	49	MT1	O	CD door motor control signal output.
12	OSC2	O	Oscillation terminal.	50	NC	-	Non connect.
13	OSC1	I	Oscillation terminal.	51	NC	-	Non connect.
14	VSS	-	Power terminal.	52	FCD	O	Function CD.
15	XI	I	Sub clock signal.	53	FTU	O	Function Tuner.
16	XO	O	Sub clock signal.	54	FAUX	O	Function AUX.
17	MMOD	-	Connect to GND.	55	FAUX2	O	Function AUX2.
18	TXD	O	Command data output to IC500.	56	NC	-	Non connect.
19	RXD	I	Status signal input from IC500.	57	FLRST	O	Reset signal output.
20	NC	-	Non connect.	58	FLCS	O	Chip select signal output.
21	NC	-	Non connect.	59	FLCK	O	Shift clock signal output.
22	SUBQ	I	Sub-code/Q-code input.	60	FLDATA	O	Serial data output.
23	SQCK	O	Outside clock for sub-code/Q-code register output.	61	MDMODE	O	MD indicator control signal output.
24	STAT	O	Status signal output to IC603.	62	STBY	O	Standby indicator control signal output.
25	RESET	I	Reset signal input.	63	LEDDIM	O	MD indicator control signal output.
26	MDRST	O	Reset signal output for IC500	64	NC	-	Non connect.
27	XRST	O	Reset signal output to IC603	65	POUT	O	Power ON/OFF.
28	MCLK	O	Clock signal output to IC603.	66	VOL	O	Volume control signal output to IC301.
29	MDATA	O	Command signal output to IC603.	67	BASS	O	BASS control signal output.
30	MLD	O	Load signal output to IC603.	68	TRE	O	Treble control signal output.
31	REM	I	Remote control signal input.	69	HCTL	O	Active clear sound ON/OFF control.
32	RDSCK	I	Clock signal input from IC4.	70	AHB	O	Super Bass ON/OFF control.
33	BLKCK	I	Sub-code.block.cock signal input	71	SMUTE	O	System mute.
34	RDSDI	I	RDS data input.	72	MDPOUT	O	MD regulator control.
35	REST	I	Reset switch ON/OFF input.	73~77	NC	-	Non connect.
36	TUDO	O	Tuner data output.	78	BUP	I	Distinction of backup power source H=backup.
37	TUDI	I	Tuner data input.	79	+BCTL	O	Switched 5V control.
38	TUCK	O	Clock signal output to IC2.	80	BEAT	O	Main clock selector.

M66004FP-X(IC801):FL DRIVER

1. Block Diagram

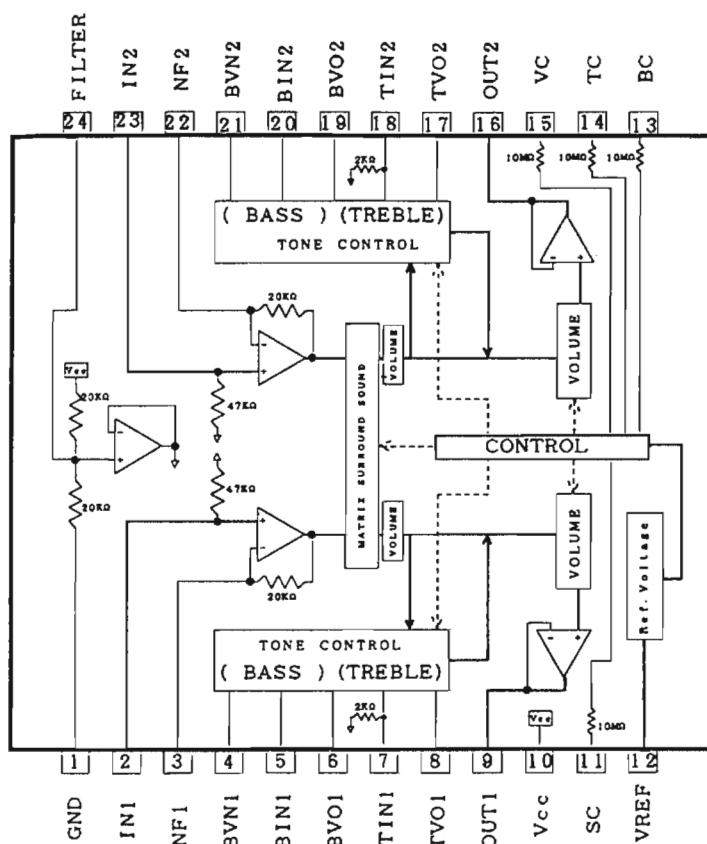


2. Pin function

Pin.No.	Symbol	I/O	Function
1~12	G12~G1	O	FL grid control signal output.
13	FLRST	I	Reset signal input.
14	FLCS	I	Chip select signal input.
15	FLCK	I	Shift clock signal input.
16	FLDATA	I	Serial data input.
17	NC	-	Non connect.
18	NC	-	Non connect.
19	VCC1	-	Power supply for internal logic.
20	XOUT	O	Clock signal output.
21	XIN	I	Clock signal input.
22	VSS	-	Connect to GND.
23	NC	-	Non connect.
24~31	S35~S28	O	FL Segment control signal output.
32	VP	-	Power supply.
33~59	S27~S1	O	FL Segment control signal output.
60	VCC2	-	Power supply for grid output and segment output.
61~64	G16~G13	O	FL grid control signal output.

■BH3852S(IC301):E.VOLUME

1.Block Diagrams

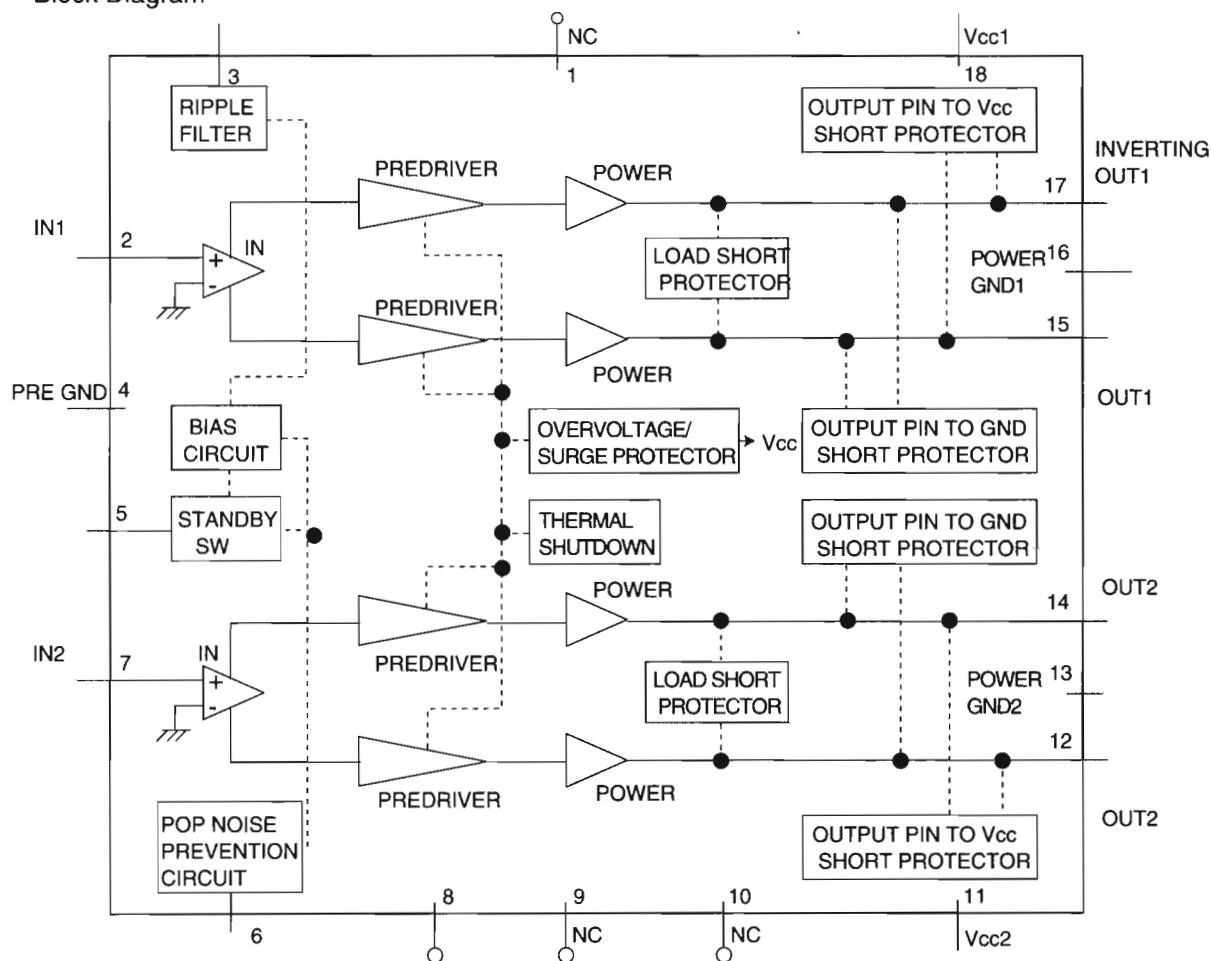


2.Pin Function

PinNo.	Symbol	I/O	Function	PinNo.	Symbol	I/O	Function
1	GND	-	Connect to GND.	13	BASS	I	Terminal for bass control.
2	IN1	I	Terminal for 1ch volume input.	14	TRE	I	Terminal for treble control.
3	NF1	I	Terminal for gain adjustment of input step AMP.	15	VOL	I	Terminal for volume control.
4~6	BASS1	-	Terminal for connection of 1ch low-frequency filter.	16	OUT2	O	Terminal for 2ch volume output.
7.8	TRE1	-	Terminal for connection of 1ch high-frequency filter.	17.18	TRE2	-	Terminal for connection of 2ch high-frequency filter.
9	OUT1	O	Terminal for 1ch volume output.	19~21	BASS2	-	Terminal for connection of 2ch low-frequency filter.
10	VCC	-	Terminal for power supply.	22	NF2	I	Terminal for gain adjustment of input step AMP.
11	LIVE	-	Terminal for surround control.	23	IN2	I	Terminal for 2ch volume input.
12	VREF	O	Terminal for reference voltage output.	24	VSET	-	Terminal for filter.

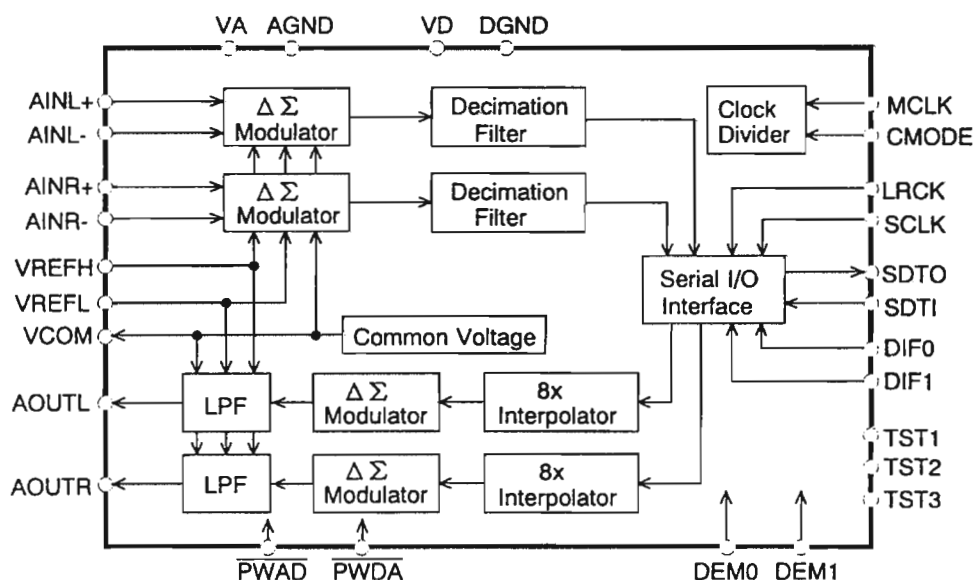
LA4705NA (IC303): Power Amp.

Block Diagram



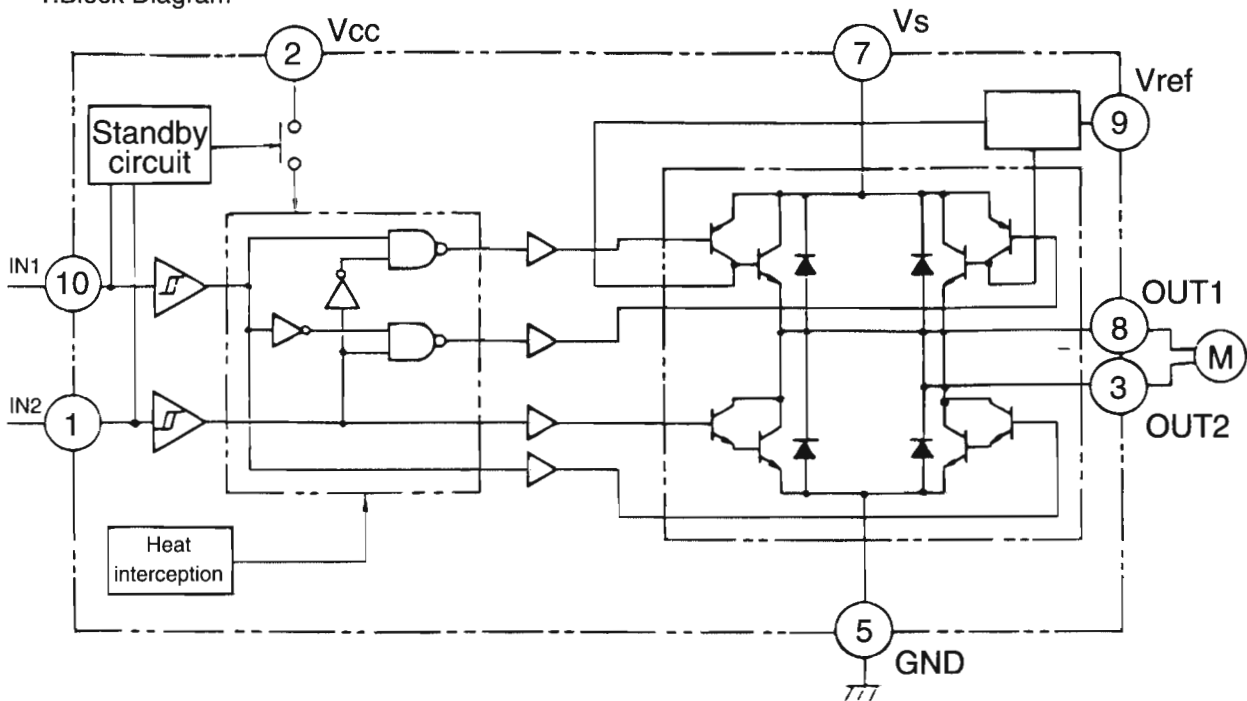
Pins 1,9,10 ---- No connection

AK4520A-VF-X(IC480):A/D & D/A Converter



■TA8409F-W(IC572):Motor Driver

1.Block Diagram



2.Function

INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	MOTOR
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

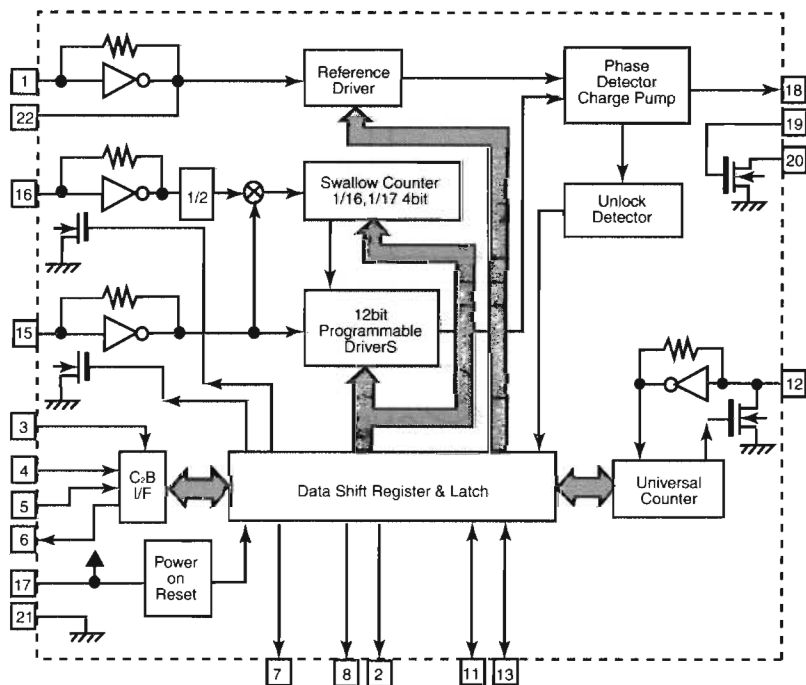
UX-MD9000R

■LC72136N(IC2):PLL Frequency sinsesizer L S I

1. Layout

XT	1	22	XT
FM/AM	2	21	GND
CE	3	20	LPFOUT
DI	4	19	LPFIN
CLOCK	5	18	PD
DO	6	17	VCC
FM/ST/VCO	7	16	FMIN
AM/FM	8	15	AMIN
	9	14	
SDIN	10	13	IFCONT
	11	12	IFIN

2. Block



3. Function

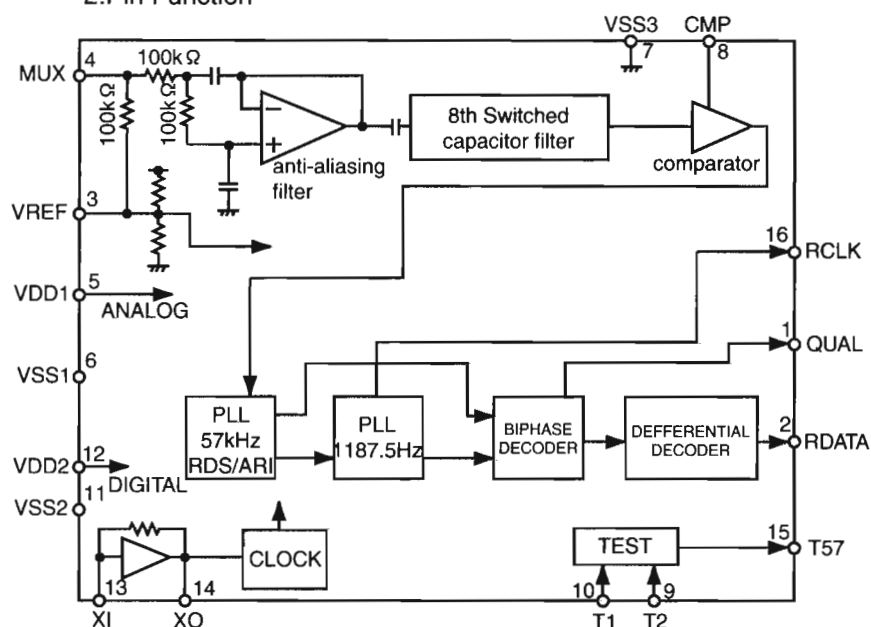
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75KHz)	12	IFIN	I	IF counter signal input
2	FM/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the sirisl data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power suply(VDD=4.5~5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	AM/FM	O	Not use	19	LPFIN	I	Input for active lowpassfilter of PLL
9		-	Not use	20	LPFOUT	O	Output for active lowpassfilter of PLL
10		-	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	XT	I	X'tal oscillator(75KHz)

■ BU1922(IC4):RDS Detector

1.Terminal Layout

QUAL	1	16	RCLK
RDATA	2	15	T57
VREF	3	14	XO
MUX	4	13	XI
VDD1	5	12	VDD2
VSS1	6	11	VSS2
VSS3	7	10	T1
CMP	8	9	T2

2.Pin Function

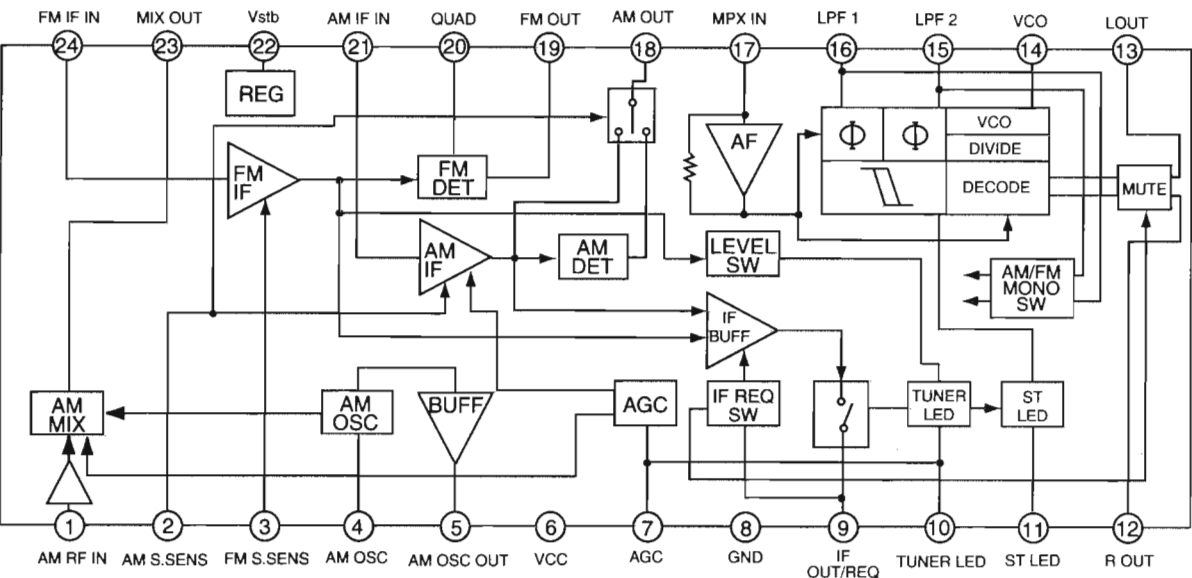


3.Pin Function

Pin No	Symbol	I/O	Function
1	QUAL	--	Non connection
2	RDDA	O	RDS data output
3	VR	O	Reference voltage output
4	MUX	I	Multiplex signal input
5	VDDA	--	+5Vsupply voltage for analog
6	VSSA	--	Ground for analog part(0V)
7	CIN	I	Subcarrier outputof reconstruction filter
8	SCOUT	O	Ground for digital part(0V)
9	MODE	--	Ground for digital part(0V)
10	TES	--	Ground for digital part(0V)
11	VSSD	--	Ground for digital part(0V)
12	VDDD	--	+5Vsupply voltage for digital part
13	OSC2	I	Oscilator input
14	OSC1	O	Oscilator output
15	TS7	--	Non connection
16	RDCL	O	RDS clock output

■TA2057N(IC1):FM/AM IF AMP & Detector

1.Block Diagrams

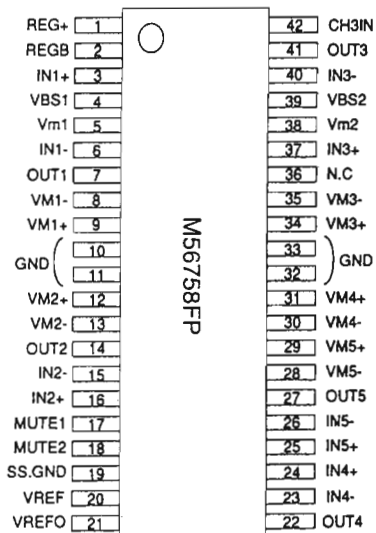


2.Pin Function

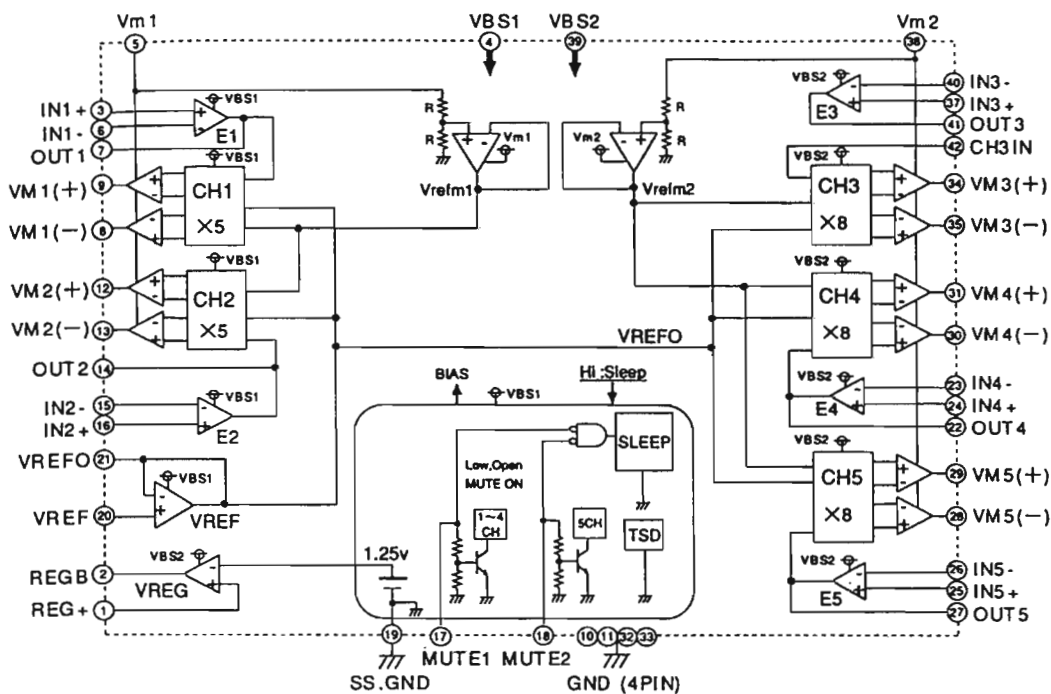
Pin No.	I/O	Symbol	Function	Pin No.	I/O	Symbol	Function
1	I	AM RF	AMRF signal input	13	O	Lch OUT	Output Lch
2		AM S.SENS		14	O	VCO	Voltage controlled terminal
3		FM S.SENS		15	O	LPF2	When voltage of terminal is MONO at "H" and ST at "L"
4	-	AM OSC	AM local oscillation circuit	16	O	LPF1	When voltage of terminal is AM at "H" and FM at "L"
5	O	AM OSC OUT	AM local oscillation signal output	17	I	MPX IN	Multi plex signal input
6	-	VCC	Power supply	18	O	AM OUT	AM detection signal output
7	I	AGC	AGC voltage input terminal	19	O	FM OUT	FM detection signal output
8	-	GND	Connect to GND	20	I	FM QUAD	Bypass to FMIF
9	O	IF OUT	IF REQ signal output to IC2	21	I	AM IF IN	Input of AMIF signal
10	O	TU IND	Indicator drive output when tuning	22	-	Vst	Fixed voltage output terminal
11	O	ST IND	Stereo indicator output "H"mono . "L"stereo	23	O	AM MIX OUT	Output terminal for AM mixer
12	O	Rch OUT	Output Rch	24	I	FM IF IN	Input of FMIF signal

M56758FP-X(IC410):5Channel actuator driver

1.Terminal Layout

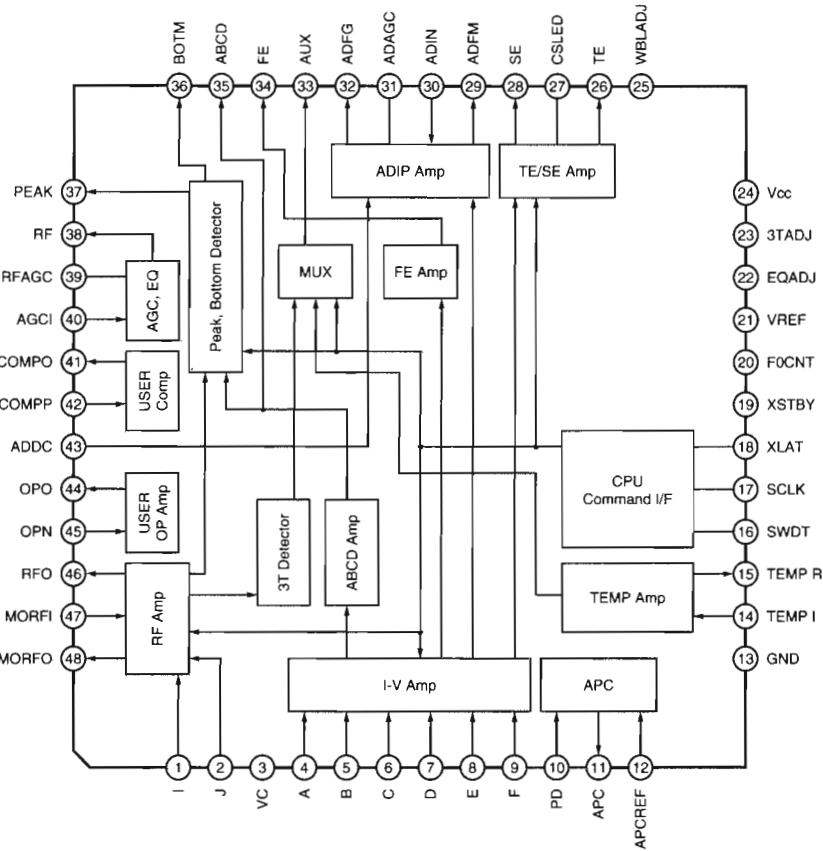


2.Block Diagram



■CXA2523AR(IC310):MD Servo

1.Block Diagram



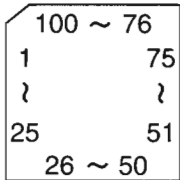
2.Pin Function

Pin No.	Symbol	I/O	Function
1	I	I	I-V converted RF signal I input.
2	J	I	I-V converted RF signal J input.
3	VC	O	Vcc/2 voltage output.
4	A	I	A current input for main beam servo signal.
5	B	I	B current input for main beam servo signal.
6	C	I	C current input for main beam servo signal.
7	D	I	D current input for main beam servo signal.
8	E	I	E current input for side beam servo signal.
9	F	I	F current input for side beam servo signal.
10	PD	I	Reflection light quantity monitor signal input.
11	APC	O	Laser APC output.
12	APCREF	I	Reference voltage input for the laser power intensity setting.
13	GND	-	Connect to GND.
14	TEMPI	I	Connects the temperature sensor.
15	TEMP R	I	Connects the temperature sensor. outputs the reference voltage.
16	SWDT	I	Data input for microcomputer serial interface.
17	SCLK	I	Shift clock input for microcomputer serial interface.
18	XLAT	I	Latch signal input for microcomputer serial interface.Latched when low.
19	XSTBY	I	Standby setting pin. Normal operation when high Standby when low.
20	FOCNT	I	Internal current source setting pin.

Pin No.	Symbol	I/O	Function
21	VREF	O	Reference voltage output.
22	EQADJ	I/O	Equalizer center frequency setting pin.
23	3TADJ	I/O	BPF3T center frequency setting pin.
24	Vcc	-	Power supply.
25	WBLADJ	I/O	BPF22 center frequency setting pin.
26	TE	O	Tracking error signal output.
27	CSLED	-	Connects the sled error signal LPF capacitor.
28	SE	O	Sled error signal output.
29	ADFM	O	ADIP FM signal output.
30	ADIN	I	ADIP signal comparator input.
31	ADAGC	-	Connects the ADIPAGC capacitor.
32	ADFG	O	ADIP2 binary value signal output.
33	AUX	O	13 output / temperature signal output. Switched with serial commands.
34	FE	O	Focus error signal output.
35	ABCD	O	Reflection light quantity signal output for the main beam servo detector.
36	BOTM	O	RF/ABCD bottom hold signal output.
37	PEAK	O	Peak hold signal output for the RF/ABCD signals.
38	RF	O	RF equalizer output.
39	RFAGC	-	Connects the RFAGC capacitor.
40	AGCI	I	RFAGC input.
41	COMPO	O	User comparator output.
42	COMPP	I	User comparator non-inverted input.
43	ADDC	I/O	Connects the capacitor for ADIP amplifier feedback circuit.
44	OPO	O	User operational amplifier output.
45	OPN	I	User operational amplifier inverted input.
46	RFO	O	RF amplifier output. Eye pattern checkpoint.
47	MORFI	I	Input of the groove RF signal with AC coupling.
48	MORFO	O	Groove RF signal output.

■HD6433045SV09F(IC500) : MD Control Micon

1. Terminal Layout



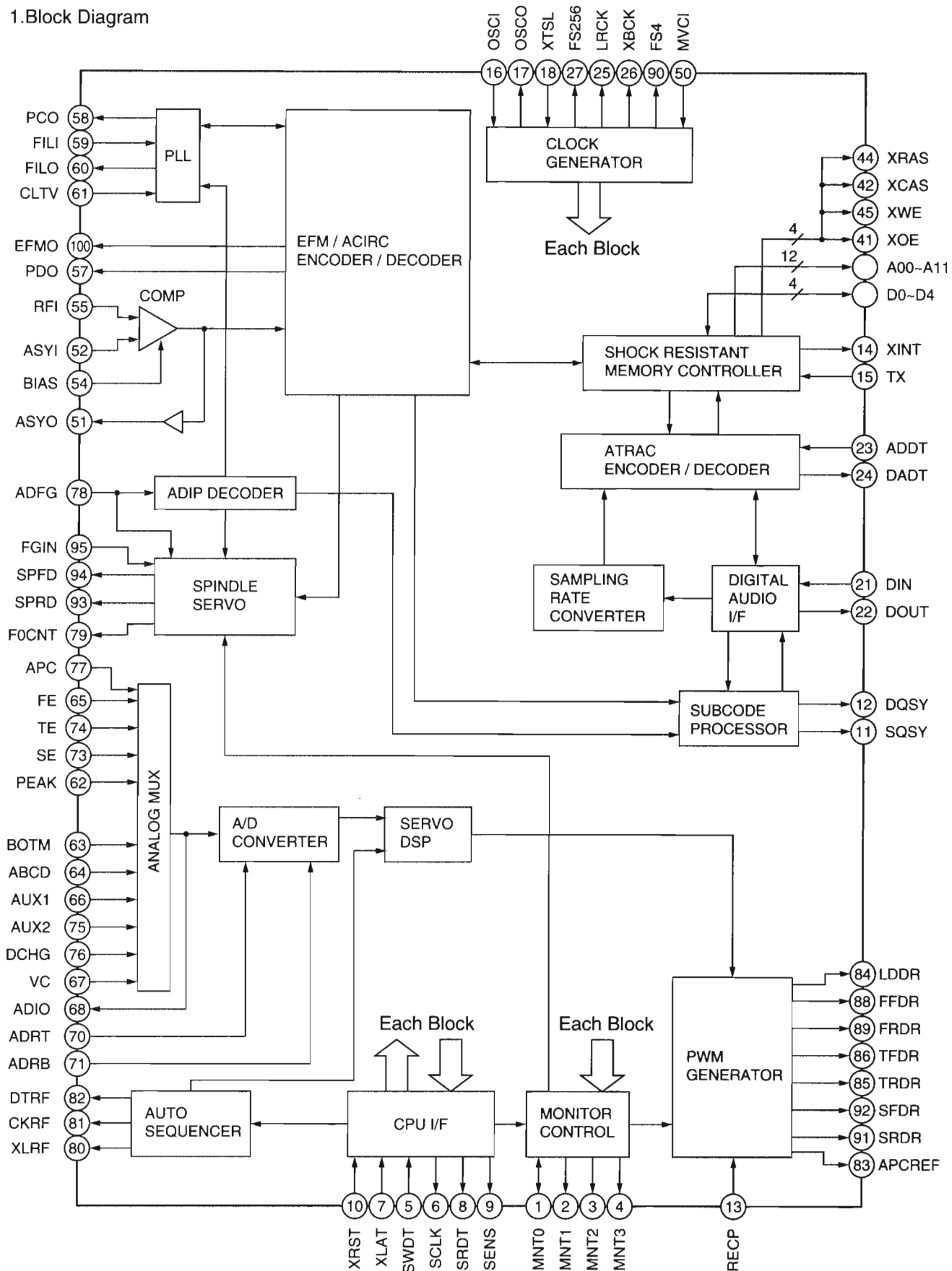
2. Pin Function

PIN No.	Symbol	I/O	Function
1	VCC	-	Power supply.
2	DIUNL	-	"H" is output at "Digital IN unlock".
3	MODON	O	L:Harmonic weight ON, at playback.
4	MODCHG	O	L:PLAY H:REC (Harmonic weight power).
5	TX	O	Data output enable signal when recording.
6	RECP	O	Connect to RECP terminal for IC350.
7	XTSL	O	Connect to XTSL terminal for IC350.
8	XRST	O	Connect to XRDT terminal for IC350.
9	XLAT	O	Connect to XLAT terminal for IC350.
10	RESO	-	When the flash memory is written it is the voltage supply of +12V terminal.
11	GND	-	Connect to GND.
12	STATUS	O	Status signal output to IC901.
13	SWDT	O	Serial bus light output terminal to IC350.
14	COMMAND	I	command data input from IC901.
15	SRDT	I	Serial bus lead input terminal to IC350.
16	COMCLK	O	Clock signal to IC901.
17	SCLK	I	Serial bus clock output terminal to IC350.
18	STSRDY	O	Ready signal from IC901.
19	MEMUTE	O	Pick up drive mute terminal.
20	MHON	O	Magnetic head drive control terminal L:At recording.
21	P.ON	O	Power ON/OFF control terminal H:Power ON.
22	GND	-	Connect to GND.
23	PWAD	O	A/D converter ON/OFF control terminal for audio, L:Power down.
24	PWDA	O	D/A converter ON/OFF control terminal for audio, L:Power down.
25	EMPHE	O	Playback signal emphasis ON/OFF signal L:ON.
26	NC	-	Non connect.
27	EJECT	O	Motor driver control signal output. H:EJECT L:LOAD
28	LOAD	O	Motor driver control signal output. H:LOAD L:EJECT
29~34		-	Non connect.
35	VCC	-	Power supply.
36	SSTOP	I	Limit switch ON/OFF detect signal terminal for surroundings detection the in disc.
37	MREF	I	Disc hole detect switch (Reflectivity detection input).
38	MPROT	I	Disc hole detect switch (Recording protection detection input).
39~43		-	Non connect.

PIN No.	Symbol	I/O	Function
44	GND	-	Connect to GND.
45	PLAY SW	I	Play switch detection.
46	LOAD SW	I	Load switch detection.
47~52		-	Non connect.
53	SEL0	I	ID when controlling simultaneously (pull up MOS) At normal use:H.
54	SEL1	I	ID when controlling simultaneously (pull up MOS) At normal use:H.
55	SEL2	I	ID when controlling simultaneously (pull up MOS) At normal use:H.
56	SEL3	I	ID when controlling simultaneously (pull up MOS) At normal use:H.
57	GND	-	Connect to GND.
58	MMONI0	O	Parallel operation monitor terminal.
59	MMONI1	O	Parallel operation monitor terminal.
60	MMONI2	O	Parallel operation monitor terminal.
61	0	O	Parallel operation monitor terminal.
62	STBY	-	Connect to VCC.
63	RESET	I	Reset signal input terminal.
64	NMI	I	Connect to VCC.
65	GND	-	Connect to GND.
66	EXTAL	-	Oscillation terminal (8MHz).
67	XTAL	-	Oscillation terminal (8MHz).
68	VCC	-	Power supply.
69	MMONI3	O	Parallel operation monitor terminal.
70	SCL	O	EEPROM Serial clock output to IC590,IC591.
71	DI	O	EEPROM Data output to IC590,IC591.
72	CS	O	EEPROM Chip select terminal output to IC590,IC591.
73	MD0	-	Connect to VCC.
74	MD1	-	Connect to VCC.
75	MD2	-	Connect to VCC.
76	AVCC	-	Connect to VCC.
77	Vref	-	Connect to VCC.
78	MODESE	I	Operation mode select terminal for Micon H:Time usually.
79	SET1	I	External communication method selection terminal, H:UART L:four line type.
80	SET2	I	DOUT selection terminal, H:DIN output L:FS convert output.
81	SET3	I	Digital output selection terminal H:OFF L:ON.
82	MT0	I	Monitor output selection terminal of IC350.
83	MT1	I	Monitor output selection terminal of IC350.
84	MT2	I	Monitor output selection terminal of IC350.
85	MT3	I	Monitor output selection terminal of IC350.
86	GND	-	Connect to GND.
87	XINT	I	Interruption status input terminal of IC350.
88	DQSY	I	Digital in of U-bit, Sub code Q sink input terminal.
89	SQSY	I	Sub code Qsink input terminal.
90	NC	-	Non connect.
91	NC	-	Non connect.
92	GND	-	Connect to GND.
93	MNT0	I	Connect to MNT0 terminal of IC350.
94	MNT1	I	Connect to MNT1 terminal of IC350.
95	MNT2	I	Connect to MNT2 terminal of IC350.
96	MNT3	I	Connect to MNT3 terminal of IC350.
97	SENS	I	Status signal input terminal from IC350.
98	DO	I	EEPROM Serial data input terminal from IC590,IC591.
99	X.SEL	I	Crystal oscillation frequency selection terminal, L:22.5792MHz H:45.1584MHz.
100	VCC	-	Power supply.

■ CXD2652AR(IC350)

1. Block Diagram



Pin No.	Symbol	I/O	Function
51	ASYO	O	Playback EFM full-swing output. (Low:Vss High:Vdd)
52	ASYI	I	Playback EFM comparator slice voltage input.
53	AVdd	-	Analog power supply.
54	BIAS	I	Playback EFM comparator bias current input.
55	RFI	I	Playback EFM RF signal input.
56	AVss	-	Analog ground.
57	PDO	O	Phase comparison output for analog PLL of EFM decoder.
58	PCO	O	Phase comparison output for master PLL of playback digital PLL and recoding EFM PLL.
59	FILI	I	Filter input for master PLL of playback digital PLL and recording EFM PLL.
60	FILO	O	Filter output for master PLL of playback digital PLL and recording EFM PLL.
61	CLTV	I	Internal VCO control voltage input for master PLL of playback digital PLL and recording EFM PLL.
62	PEAK	I	Peak hold signal input for quantity of light.
63	BOTM	I	Bottom hold signal input for quantity of light.
64	ABCD	I	Signal input for quantity of light.
65	FE	I	Focus error signal input.
66	AUX1	I	Auxiliary input1.
67	VC	I	Center voltage input.
68	ADIO	O	Monitor output for A/D converter input signal.
69	AVdd	-	Analog power supply.
70	ADRT	I	Voltage input for the upper limit of the A/D converter operating range.
71	ADRB	I	Voltage input for the lower limit of the A/D converter operating range.
72	AVss	-	Analog ground.
73	SE	I	Sled error signal input.
74	TE	I	Tracking error signal input.
75	AUX2	I	Auxiliary input 2.
76	DCHG	I	Connect to the low-impedance power supply.
77	TEST4	I	Error signal input for laser digital APC.
78	ADFG	I	ADIP binary FM signal ($22.05 \pm 1\text{kHz}$) input.
79	F0CNT	O	CXA2523 current source setting output.
80	XLRF	O	CXA2523 control latch output. Latched at the falling edge.
81	CKRF	O	CXA2523 control shift clock output.
82	DTRF	O	CXA2523 control data output.
83	APCREF	O	Reference PWM output for laser APC.
84	TEST0	-	Non connect
85	TRDR	O	Tracking servo drive PWM output.(-)
86	TFDR	O	Tracking servo drive PWM output.(+)
87	DVdd	-	Digital power supply.
88	FFDR	O	Focus servo drive PWM output.(+)
89	FRDR	O	Focus servo drive PWM output.(-)
90	FS4	-	Non connect.
91	SRDR	O	Sled servo drive PWM output.(-)
92	SFDR	O	Sled servo drive PWM output.(+)
93	SPRD	O	Spindle servo drive output.(PWM(-) or polarity)
94	SPFD	O	Spindle servo drive output.(PWM(+)) or PWM absolute value)
95	FGIN	I	Spindle CAV servo FG input.
96	TEST1	I	Test pin.Connect to GND.
97	TEST2	I	Test pin.Connect to GND.
98	TEST3	I	Test pin.Connect to GND.
99	DVss	-	Digital ground.
100	EFMO	O	Low when playback:EFM (encoded data) output when recording.

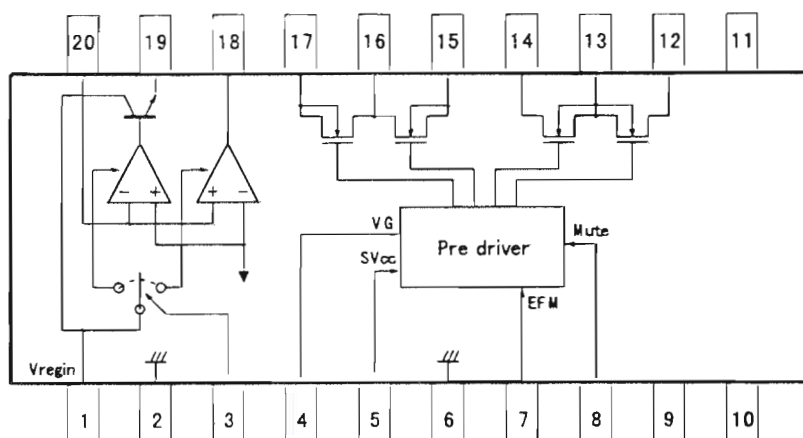
UX-MD9000R

2.Pin Function

Pin No.	Symbol	I/O	Function
1	MNT0	I/O	Monitor output.
2	MNT1	O	Monitor output.
3	MNT2	O	Monitor output.
4	MNT3	O	Monitor output.
5	SWDT	I	Data input for microcomputer serial interface.
6	SCLK	I	Shift clock input for microcomputer serial interface
7	XLAT	I	Latch input for microcomputer serial interface.Latched at the falling edge.
8	SRDT	O	Data output for microcomputer serial interface.
9	SENS	O	Output the internal status corresponding to the microcomputer serial interface address.
10	XRST	I	Reset input. Low:reset
11	SQSY	O	Disc sub code Q sync/ADIP sync output.
12	DQSY	O	Sub code Q sync output in U-bit CD or MD format when the Digital in source is CD or MD
13	RECP	I	Laser power switching input. High:recording power Low:playback power.
14	XINT	O	Interruption request output. Low:when the interruption status occurs.
15	TX	I	Enable signal input for recording data output. High:enabled.
16	OSCI	I	Crystal oscillation circuit input.
17	OSCO	O	Crystal oscillation circuit output. (inverted output of the OSCI pin)
18	XTSL	I	OSCI input frequency switching. High:512Fs(22.5792MHz) Low:1024Fs(45.1584MHz)
19	DVDD	-	Digital power supply.
20	DVss	-	Digital ground.
21	DIN	I	Digital audio interface signal input.
22	DOUT	O	Digital audio interface signal output.
23	ADDT	I	Analog recording input (Connect to the external A/D converter output).
24	DADT	O	REC monitor output/decoded audio data output.
25	LRCK	O	LRCK(44.1kHz) output to the external audio block.
26	XBCK	O	Bit clock(2.8224MHz) output to the external audio block.
27	FS256	O	256Fs output.(11.2896MHz)
28	DVdd	-	Digital power supply.
29	A03	O	External DRAM address output.
30	A02	O	External DRAM address output.
31	A01	O	External DRAM address output.
32	A00	O	External DRAM address output.
33	NC	-	Non connect.
34	A04	O	External DRAM address output.
35	A05	O	External DRAM address output.
36	A06	O	External DRAM address output.
37	A07	O	External DRAM address output.
38	A08	O	External DRAM address output.
39		-	Non connect.
40	DVss	-	Digital ground.
41	XOE	O	External DRAM output enable.
42	XCAS	O	External DRAM CAS output.
43	A09	O	External DRAM address output.
44	XRAS	O	External DRAM RAS output.
45	XWE	O	External DRAM write enable.
46	D1	I/O	External DRAM data bus.
47	D0	I/O	External DRAM data bus.
48	D2	I/O	External DRAM data bus.
49	D3	I/O	External DRAM data bus.
50	MVCI	I	External VCO (784Fs) clock input.

■ BD7910FV-X(IC450):Pre driver

1.Block Diagram



2.Pin Function

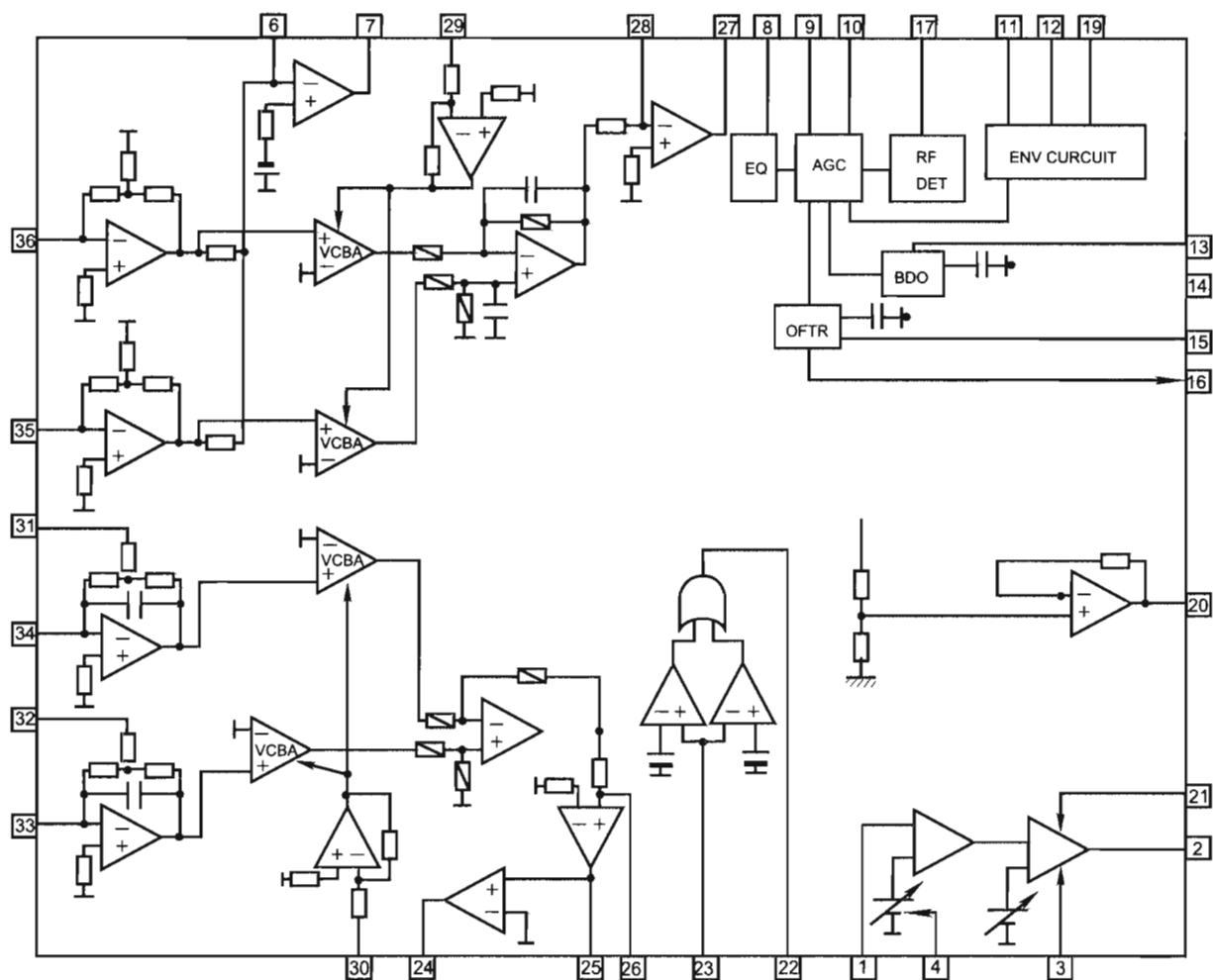
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	Vreg IN	I	Regulator input and regulator power supply	11	NC	-	Non connect
2	Reg GN	-	Regulator GND	12	VOD2	O	Sync.output (Lower power MOS,drain)
3	NC	-	Non connect	13	VSS	-	"H"bridge GND (Lower power MOS,source)
4	VG	I	Voltage input for power MOS drive	14	VOD1	O	Sync.output (Lower power MOS,drain)
5	SVCC	O	EFM high level output voltage	15	VOS1	O	Source output (Upper power MOS,source)
6	PDGND	-	Pre-driver GND	16	VDD	-	"H" bridge power supply terminal (Upper power MOS,source)
7	EFM	I	EFM signal input	17	VOS2	O	Source output (Upper power MOS,source)
8	MUTE	I	Mute control (Low active)	18	Reg DRV	O	External PNP drive output for regulator
9	NC	O	Non connctet	19	Reg OUT	O	Reglator output (Emitter follower output)
10	NC	O	Non connect	20	Reg NF	-	Regulator feedbaack terminal

■ AN8806SB(IC601):RF&Servo AMP

1.Treminal Layout

PD	1	36	PDAC
LD	2	35	PDBD
LDON	3	34	PDF
LDP	4	33	PDE
VCC	5	32	PDER
RF-	6	31	PDFR
RF OUT	7	30	TBAL
RF IN	8	29	FBAL
C.AGC	9	28	EF-
ARF	10	27	EF OUT
C.ENV	11	26	TE-
C.EA	12	25	TE OUT
CS BDO	13	24	CROSS
BDO	14	23	TE BPF
CS BRT	15	22	VDET
OFTR	16	21	LD OFF
/NRFDET	17	20	VREF
GND	18	19	ENV

2.Block Diagram

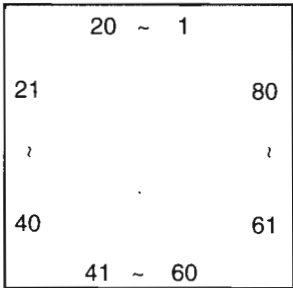


3. Functions

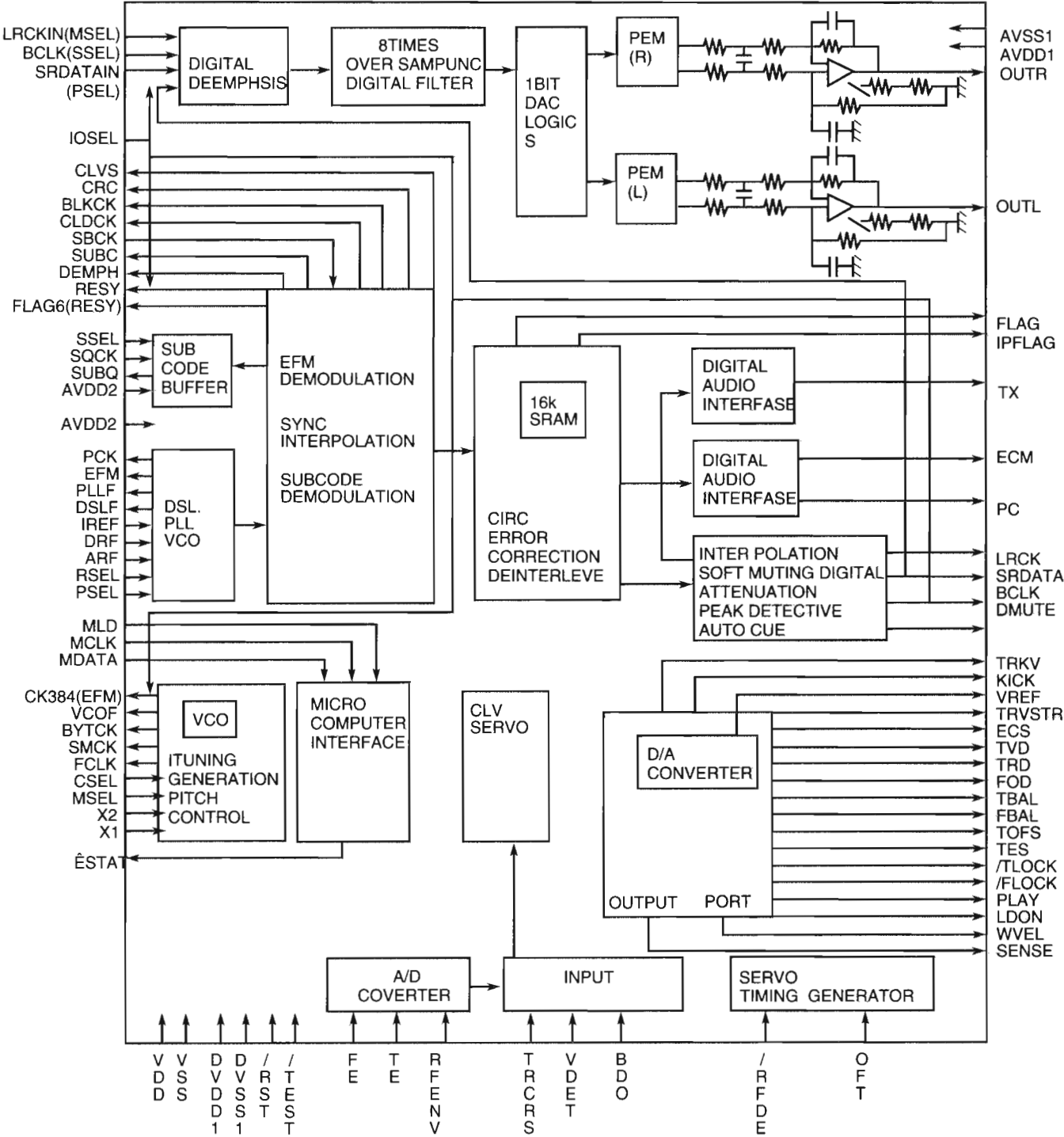
Pin No.	Symbol	I/O	Functions and operations
1	PD	I	APC amp input terminal
2	LD	O	APC amp output terminal
3	LD ON	I	APC ON/OFF control terminal
4	LDP	--	Connect to ground
5	VCC	--	Power supply
6	RF-	I	Inverse input pin for RF amp
7	RF OUT	O	RFamp output
8	RF IN	I	RF input
9	C.AGC	I/O	Connecting pin of AGC loop filter
10	ARF	O	RF output
11	C.ENV	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
12	C.EA	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
13	CS BDO	I/O	A capacitor is connected to detect the lower envelope of RF signal
14	BDO	O	BDO output pin
15	CS BRT	I/O	A capacitor is connected to detect the lower envelope of RF signal
16	OFTR	O	Of-track status signal output
17	/NRFDET	O	RF detection signal output
18	GND	--	Ground
19	ENV	O	Envelope output
20	VREF	O	Reference voltage output
21	LD OFF	--	Connect to ground
22	VDET	O	Vibration detection signal output
23	TE BPF	I	Input pin of tracking error through BPF
24	CROSS	O	Tracking error cross output
25	TE OUT	O	Tracking error signal output
26	TE-	I	Inverse input pin for tracking error amp
27	FE OUT	O	Output pin of focus error
28	FE-	I	Inverse input pin for focus error amp
29	FBAL	I	Focus balance control
30	TBAL	I	Tracking balance control
31	PDFR	I/O	F I-V amp gain control
32	PDER	I/O	E I-V amp gain control
33	PDF	I	I-V amp input
34	PDE	I	I-V amp input
35	PD BD	I	I-V amp input
36	PD AC	I	I-V amp input

■MN35510(IC603):DIGITAL SERVO&DIGITAL SIGNAL PROCESSER

1. Terminal Layout



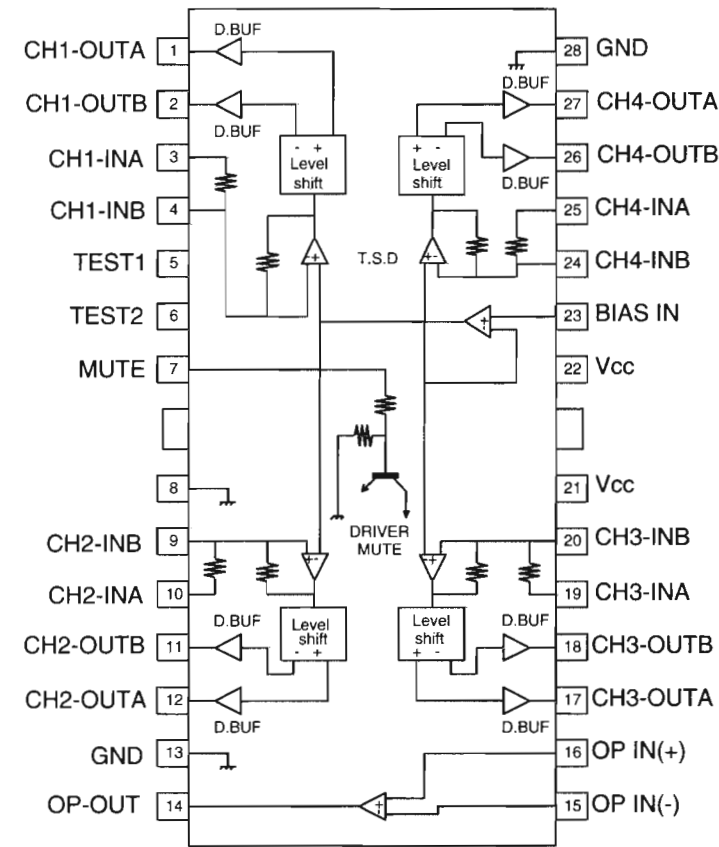
2.Block Diagram



3. Description

Pin No.	symbol	I/O	Description	Pin No.	symbol	I/O	Description
1	BCLK	O	Not used	41	TES	O	Tracking error shunt signal output(H:shunt)
2	LRCK	O	Not used	42	PLAY	—	Not used
3	SRDATA	O	Not used	43	WVEL	—	Not used
4	DVDD1	—	Power supply (Digital)	44	ARF	I	RF signal input
5	DVSS1	—	Connected to GND	45	IREF	I	Reference current input pin
6	TX	O	Digital audio interface output	46	DRF	I	Bias pin for DSL
7	MCLK	I	μ com command clock signal input (Data is latched at signal's rising point)	47	DSL F	I/O	Loop filter pin for DSL
8	MDATA	I	μ com command data input	48	PLL F	I/O	Loop filter pin for PLL
9	MLD	I	μ com command load signal input	49	VCOF	—	Not used
10	SENSE	O	Sence signal output	50	AVDD2	—	Power supply(Analog)
11	FLOCK	O	Focus lock signal output Active :Low	51	AVSS2	—	Connected to GND(Analog)
12	TLOCK	O	Tracking lock signal output Active :Low	52	EFM	—	Not used
13	BLKCK	O	sub-code·block·clock signal output	53	PCK	—	Not used
14	SQCK	I	Outside clock for sub-code Q resister input	54	PDO	—	Not used
15	SUBQ	O	Sub-code Q -code output	55	SUBC	—	Not used
16	DMUTE	—	Connected to GND	56	SBCK	—	Not used
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)	57	VSS	—	Connected to GND(for X'tal oscillation circuit)
18	RST	I	Reset signal input (L:Reset)	58	X1	I	Input of 16.9344MHz X'tal oscillation circuit
19	SMCK	—	Not used	59	X2	O	Output of X'tal oscillation circuit
20	PMCK	—	Not used	60	VDD	—	Power supply(for X'tal cscillation circuit)
21	TRV	O	Traverse enforced output	61	BYTCK	—	Not used
22	TVD	O	Traverse drive output	62	CLDCK	—	Not used
23	PC	—	Not used	63	FLAG	—	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State	64	IPPLAG	—	Not used
25	ECS	O	Spindle motor drive signal (Servo error signal output)	65	FLAG	—	Not used
26	KICK	O	Kick pulse output	66	CLVS	—	Not used
27	TRD	O	Tracking drive output	67	CRC	—	Not used
28	FOD	O	Focus drive output	68	DEMPH	—	Not used
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)	69	RESY	—	Not used
30	FBAL	O	Focus Balance adjust signal output	70	IOSEL	—	pull up
31	TBAL	O	Tracking Balance adjust signal output	71	TEST	—	pull up
32	FE	I	Focus error signal input(Analog input)	72	AVDD1	—	Power supply(Digital)
33	TE	I	Tracking error signal input(Analog input)	73	OUT L	O	Lch audio output
34	RF ENV	I	RF envelope signal input(Analog input)	74	AVSS1	—	Connected to GND
35	VDET	I	Vibration detect signal input(H:detect)	75	OUT R	O	Rch audio output
36	OFT	I	Off track signal input(H:off track)	76	RSEL	—	pull up
37	TRCRS	I	Track cross signal input	77	CSEL	—	Connected to GND
38	RFDET	I	RF detect signal input(L:detect)	78	PSEL	—	Connected to GND
39	BDO	I	BDO input pin(L:detect)	79	MSEL	—	Connected to GND
40	LDON	O	Laser ON signal output(H:on)	80	SSEL	—	Pull up

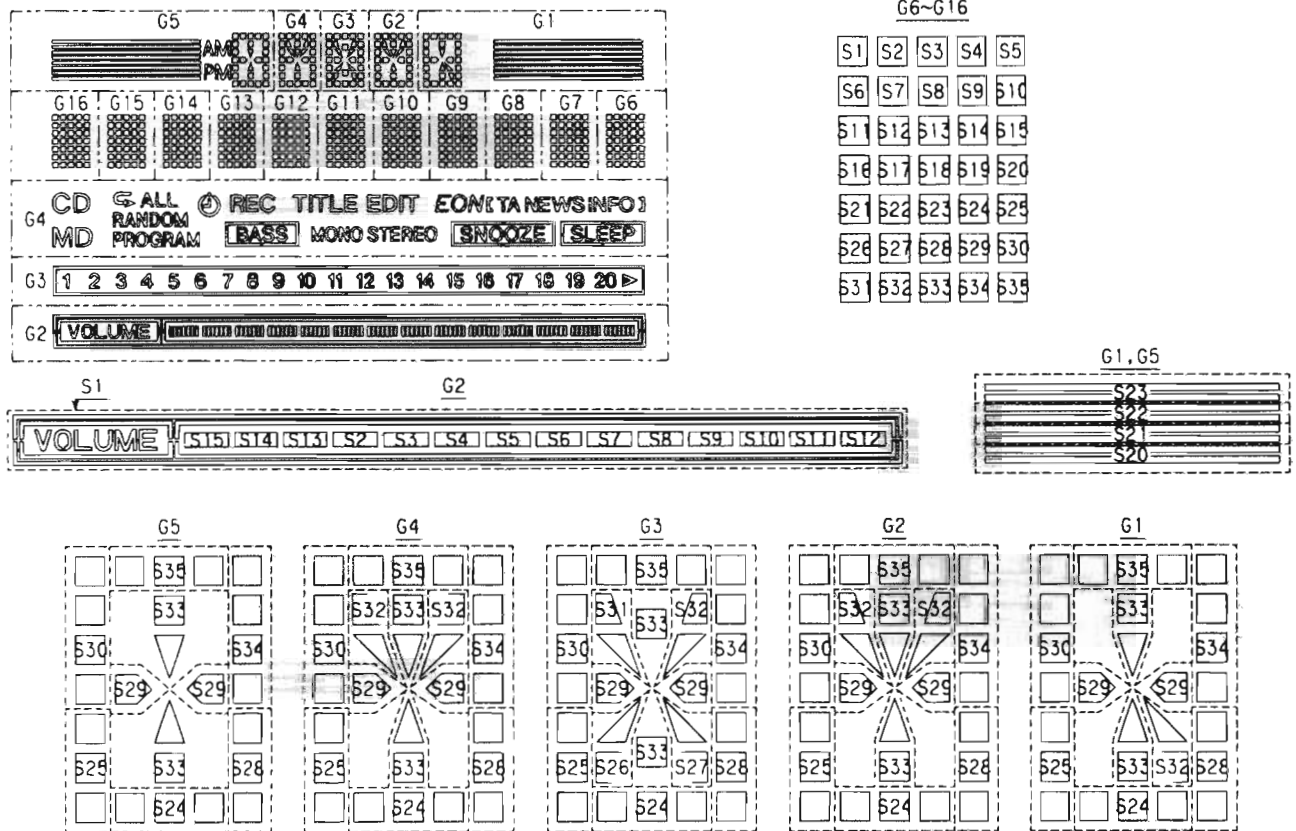
■ BA6897FP-W(IC602):4channel driver



Internal Connections for FL Display Tube

■QLF0043-001(DI901)

1. Grid & Segment



2. Anode connection

	G1	G2	G3	G4	G5		G1	G2	G3	G4	G5		G1	G2	G3	G4	G5
S1		S1	MD			S13		S13	10	REC		S25	S25	S25	S25	S25	S25
S2		S2	11	PROGRAM		S14		S14	9	TITLE		S26			S26		PM
S3		S3	12	BASS		S15		S15	8	EDIT		S27			S27		AM
S4		S4	13	MONO		S16			7	TA		S28	S28	S28	S28	S28	S28
S5		S5	14	STEREO		S17			6	NEWS		S29	S29	S29	S29	S29	S29
S6		S6	15	SNOOZE		S18			5	INFO		S30	S30	S30	S30	S30	S30
S7		S7	16	SLEEP		S19			4	EON		S31			S31		
S8		S8	17	RANDOM		S20	S20		3		S20	S32	S32	S32	S32	S32	
S9		S9	18	CD		S21	S21		2		S21	S33	S33	S33	S33	S33	S33
S10		S10	19			S22	S22		1		S22	S34	S34	S34	S34	S34	S34
S11		S11	20	ALL		S23	S23				S23	S35	S35	S35	S35	S35	S35
S12		S12				S24	S24	S24	S24	S24	S24						

PIN ASSIGNMENT

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Assignment	F1	F1	F1	NP	NL	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15

Pin No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Assignment	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27	NL	IC	NL	NP	F2	F2	F2

Pin No.	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
Assignment	F2	F2	F2	NP	NL	IC	NL	F	S28	S29	S30	S31	S32	S33	S34	S35	NL	G1	G2	G3

Pin No.	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
Assignment	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16	D	NL	NP	F1	F1	F1

Removal of Main Parts

< Main body >

■ Removing Rear cover (see Fig.1 - 3)

1. Remove the six screws ① in the rear body.
2. Remove the two screws ② on the top of the body.
3. Remove the two screws ③ in the bottom of the body.
4. Unlock the speaker terminal and antenna terminal respectively. Release the tab of the rear cover and remove the cover backwards.

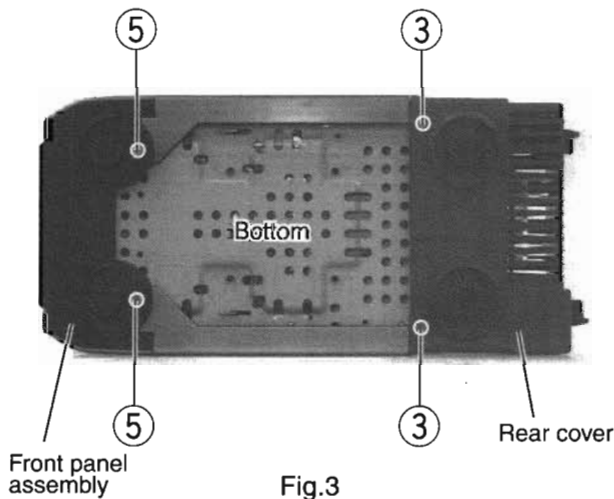


Fig.3

■ Removing Side panels and Ornament panels (see Fig.3 - 5)

1. Remove the rear cover from the body.
2. Remove the two screws ④ attaching side panels on the left and right side of the body.
3. Remove the two screws ⑤ attaching the side panels in the bottom of the body. (see Fig.3)
4. Move the left and right side panels in the directions of the arrows in the Fig.4 and 5, then remove them backwards.
5. Move the left and right ornament panels in the directions of the arrows in the Fig.4 and 5, then remove them upwards.

Reassembly

When reassembling, attach the ornament panels, side panels and rear cover in that order.

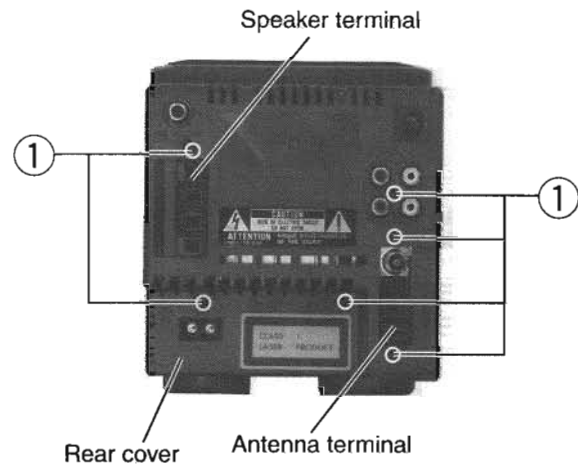


Fig.1

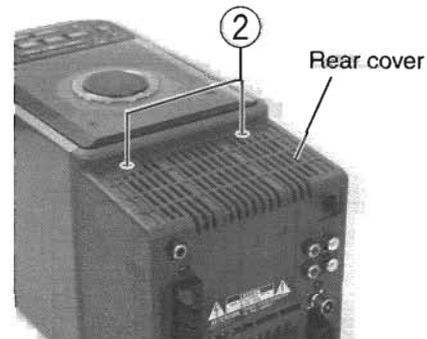


Fig.2

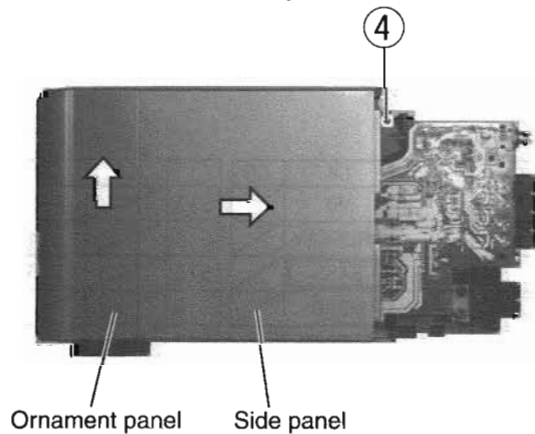


Fig.4

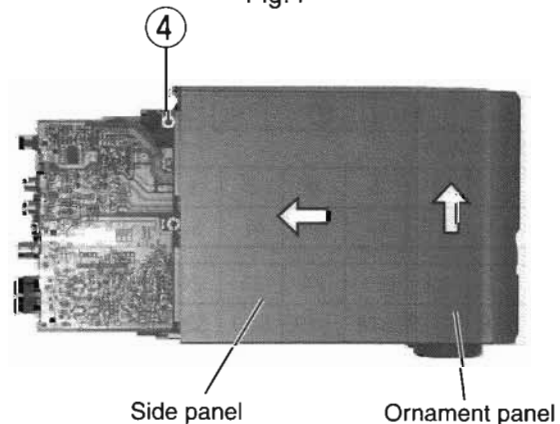


Fig.5

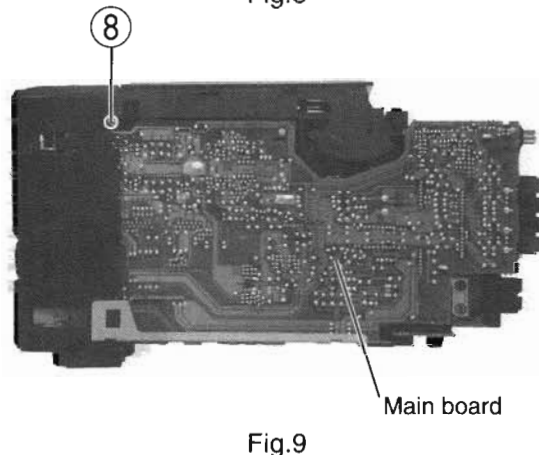
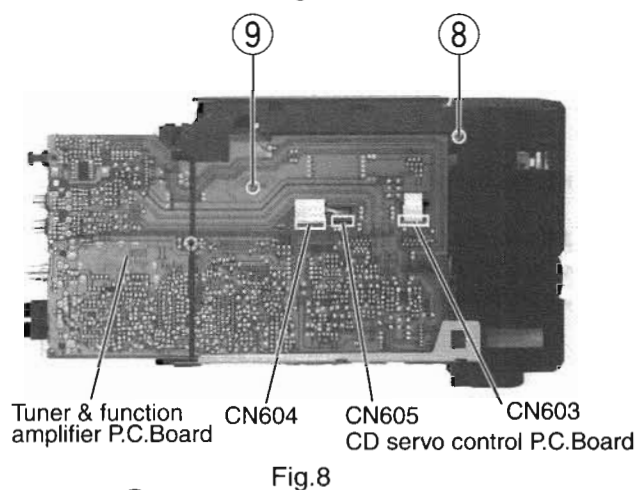
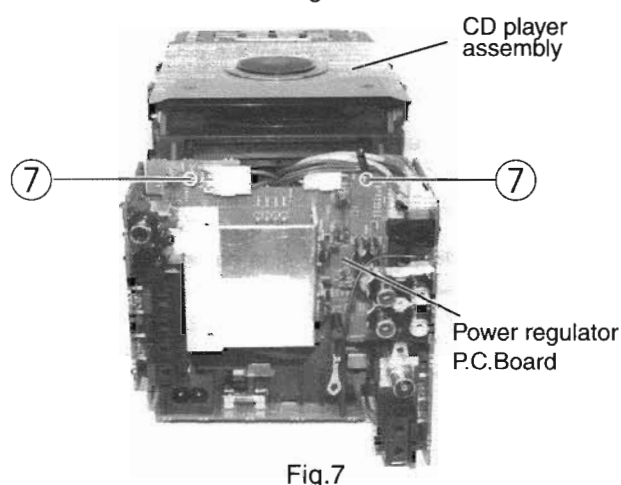
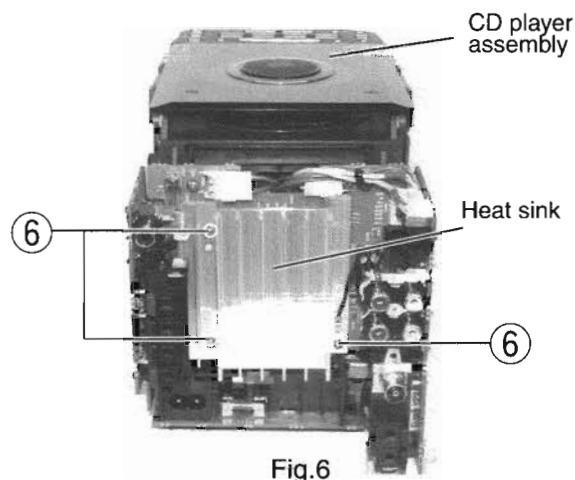
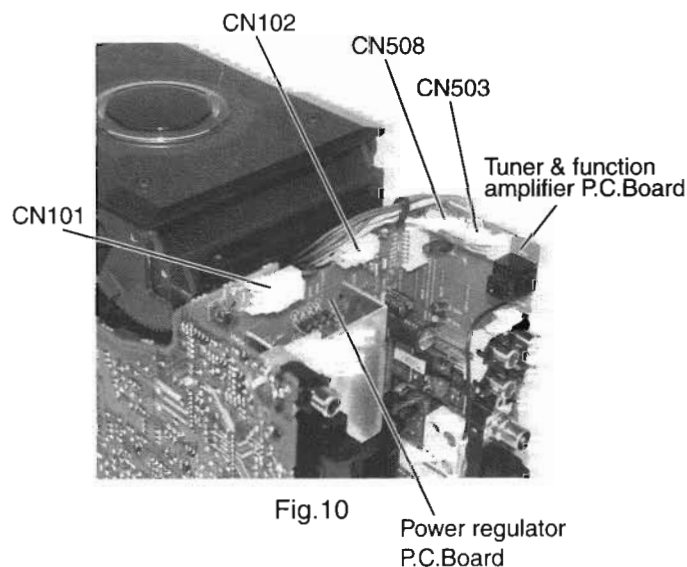
■ Removing CD Player assembly

(see Fig.6 - Fig.11)

1. Remove the rear cover from the body.
2. Remove the left and right side panels and ornament panels from the body.
3. Remove the three screws ⑥ attaching the heat sink in the rear body.
4. Remove the two screws ⑦ attaching the CD player from the power regulator P.C.Board.
5. At the notch on the left side of the body, disconnect connector CN603 on CD servo control P.C.Board locating under CD player assembly, and the card wire from CN604 respectively. Remove the two screws ⑧ attaching CD player assembly on the both sides of the body.
6. Remove the one screw ⑨ attaching CD player assembly on the left side of the body.
7. Disconnect connector CN605 on the CD servo control P.C.Board and CN508 on the Tuner & function amplifier P.C.board.
8. Detach Tuner & Function amplifier P.C.Board and Power regulator P.C.Board while removing each connector on the substrate.
9. Disconnect CN201 on the control switch board of CD player assembly from CN804 on the front P.C.Board of the assembly. Remove CD player assembly backwards.

Reassembly

To reassemble the CD player assembly certainly and easily, remove the Tuner & function amplifier P.C.Board temporarily and reassemble CD player assembly. Then, reassemble Tuner & function amplifier P.C. Board again.



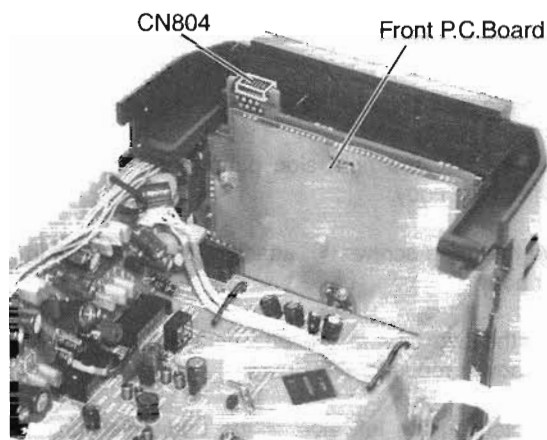


Fig.11

■ Removing Front panel assembly

(see Fig.11 - Fig.14)

1. Remove the rear cover.
2. Remove the side panels and ornament panels.
3. Remove the CD player assembly.
4. Release two joint As locating lower side corners of the front assembly with a screwdriver.

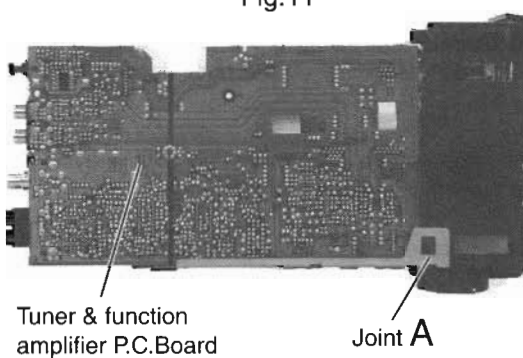


Fig.12

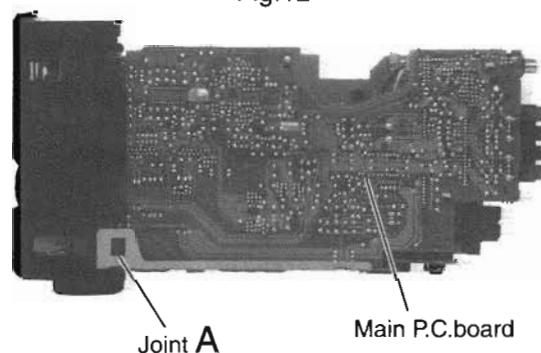


Fig.13

5. Disconnect connector CN303 on the main P.C.Board.
6. Draw and disconnect the connectors of front P.C.Board connected to CN705 and CN706 on the system control P.C.Board and CN308 on main P.C.Board.

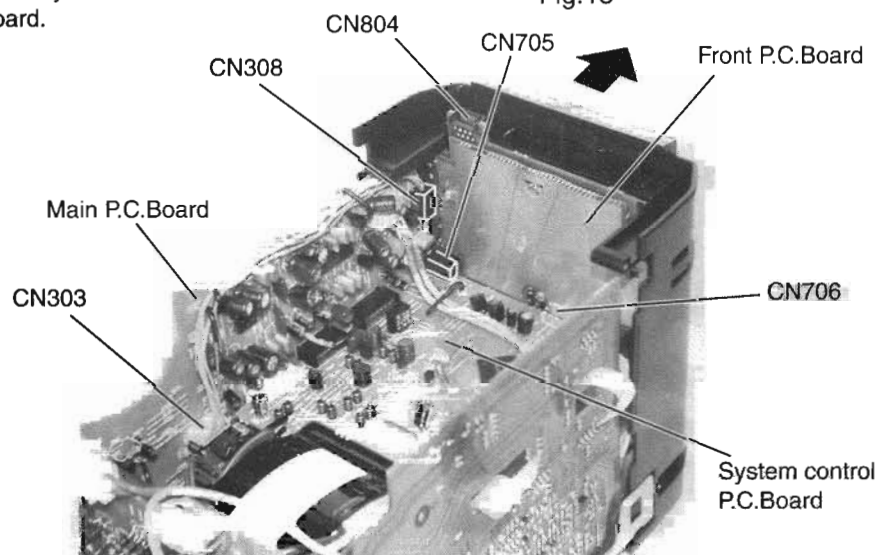


Fig.14

■ Removing CD Servo control P.C.Board

(see Fig.15 and Fig.16)

1. Remove the CD player assembly from the body.
2. Remove the four screws ⑩ attaching CD Servo control P.C.Board in the bottom of CD player assembly.
3. Disconnect the card wire from connector CN601 on CD Servo control P.C.Board.
4. Disconnect the harness from connector P011 on Motor P.C. Board.

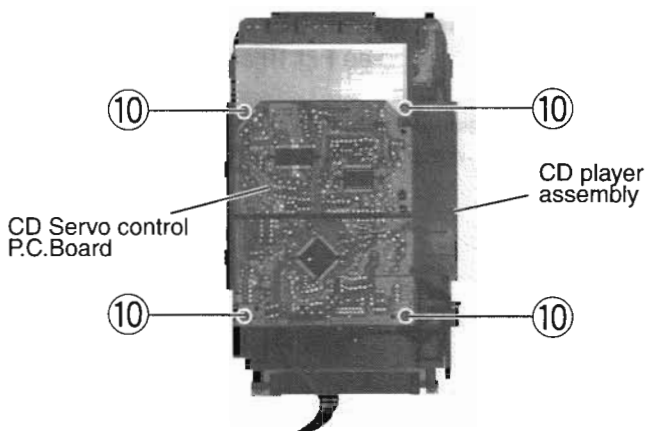


Fig.15

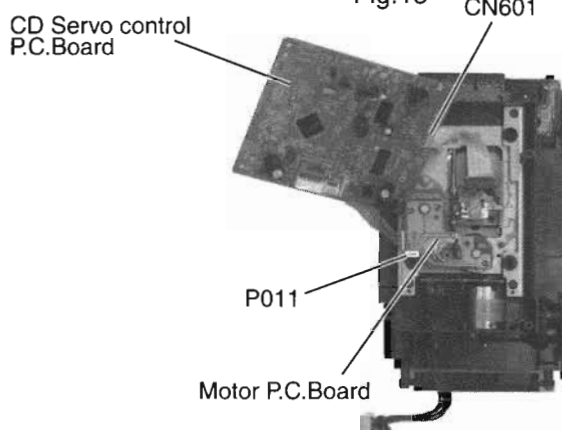


Fig.16

■ Removing CD mechanism assembly

(see Fig.17)

1. Remove CD player assembly from the body.
2. Remove CD Servo control P.C.Board from CD player assembly.
3. Remove the four screws ⑪ attaching CD mechanism assembly.
4. Remove the four dampers and CD mechanism bracket from CD mechanism assembly.

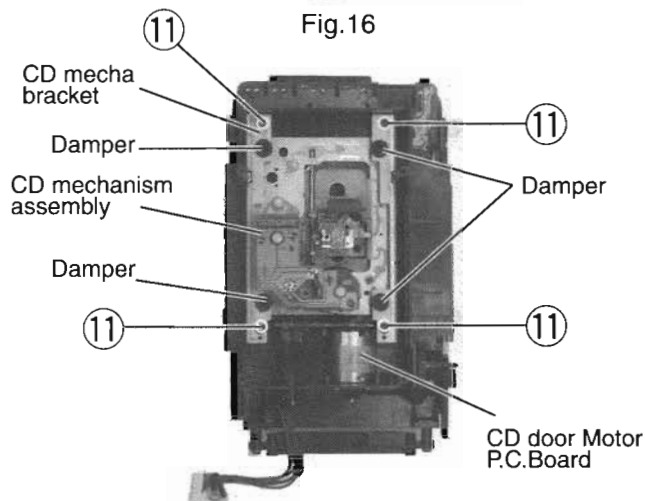


Fig.17

■ Removing CD Motor drive P.C.Board

(see Fig.17 and 18)

1. Remove CD player assembly from the body.
2. Remove CD Servo control P.C.Board from CD player assembly.
3. Remove CD mechanism assembly.
4. Remove the loading belt.
5. Remove the two screws ⑫ attaching CD door Motor drive P.C. Board.

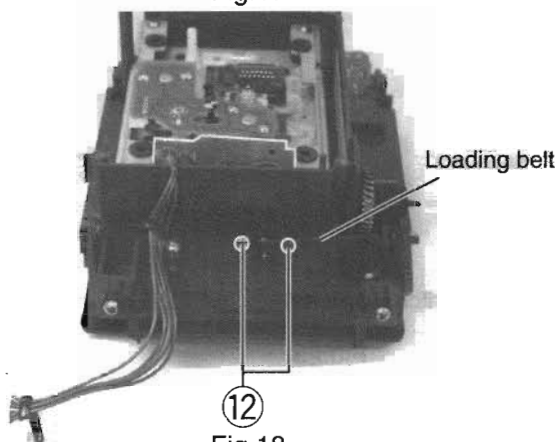


Fig.18

■ Removing CD door assembly

(see Fig.19 and Fig.20)

1. Push two joint Bs outside on the left and right sides of CD player assembly with a screwdriver. Remove the CD door assembly.

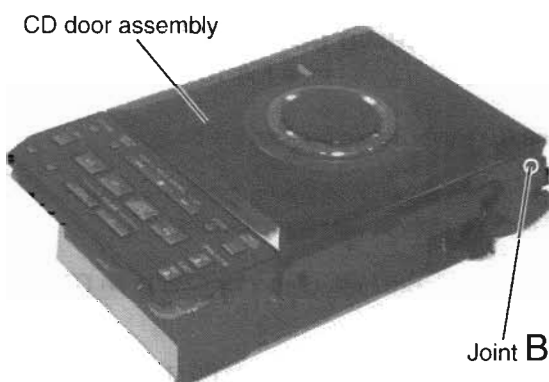


Fig.19

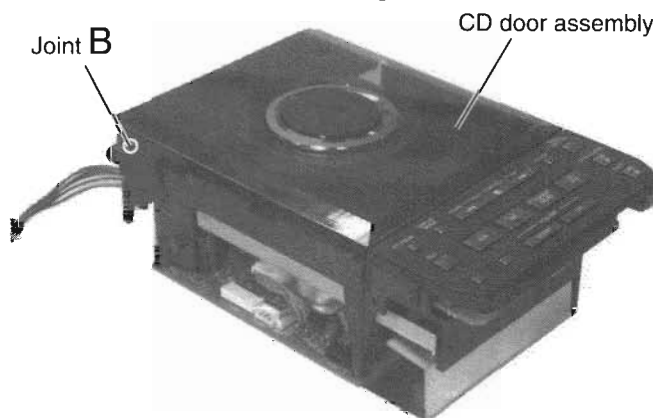


Fig.20

■ Removing Operation switch P.C. Board

1. Push left and right tab Cs outside and remove the top panel upwards.
2. Remove the three screws ⑬ attaching the operation switch P.C. Board.

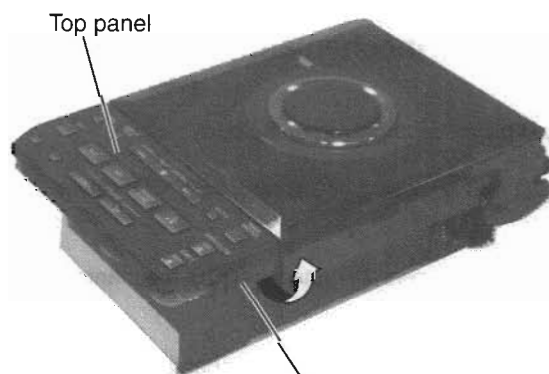
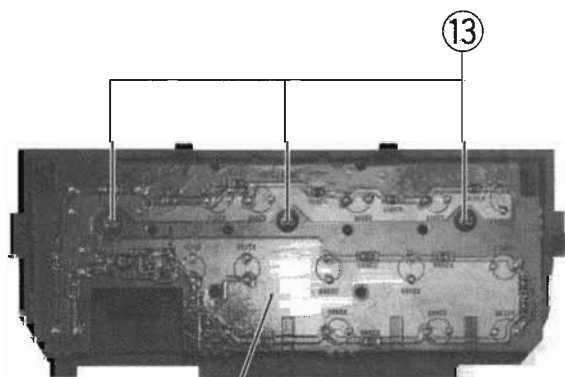


Fig.21



Operation switch P.C.Board

Fig.23

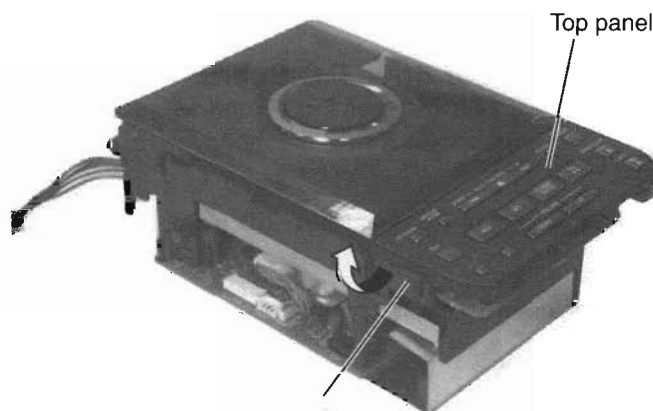


Fig.22

■ Removing Tuner & function amplifier P.C. Board and Main P.C.Board

(see Fig.24 - Fig.27)

1. Remove CD player assembly.
2. Remove the front panel assembly.
3. Draw and disconnect connector CN505, CN506 and CN507 on Tuner & function amplifier P.C.Board respectively.
4. Disconnect connector CN501 and CN504 on Tuner & function amplifier P.C.Board.
5. Remove the two screws ⑭ fixing the earth to the chassis base and detach Tuner & function amplifier P.C. Board.

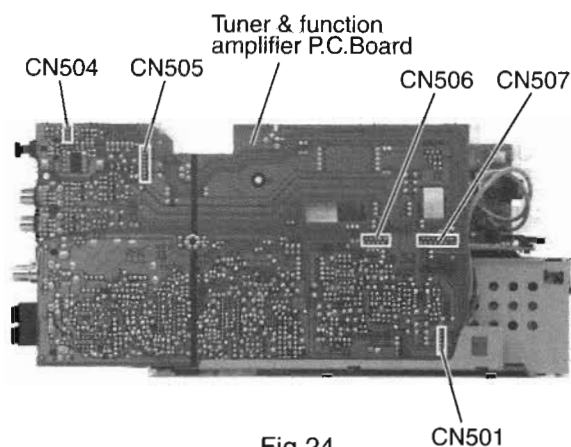


Fig.24

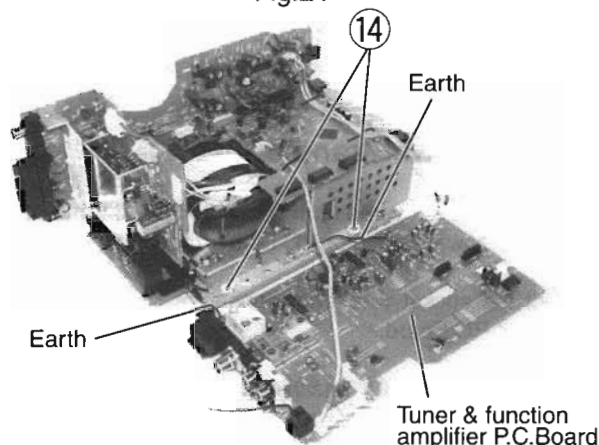


Fig.25

6. Draw and disconnect connector CN301, CN302, CN304 and CN305 on the main P.C.Board respectively.
7. Disconnect connector CN306 on the main P.C.Board.
8. Remove the two screws ⑮ fixing the earth to the chassis base and detach the main P.C.Board.
9. Disconnect the socket wires outgoing from the power transformer from connector CN101 and CN102 on the power board.

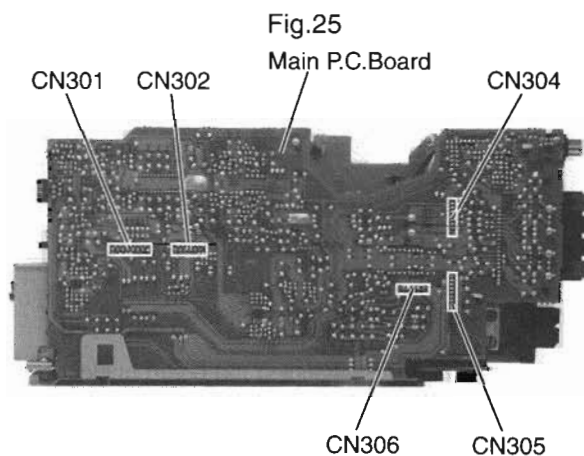


Fig.26

8. Remove the two screws ⑮ fixing the earth to the chassis base and detach the main board.
9. Disconnect the socket wires outgoing from the power transformer from connector CN101 and CN102 on the power board. (see fig.10)

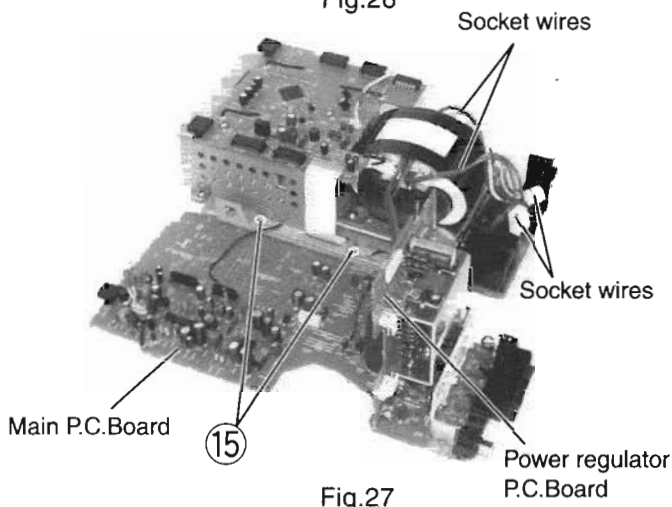


Fig.27

■ Removing System control P.C.Board

(see Fig.28)

1. Remove the three screws ⑯ attaching the system control P.C.Board.
2. Disconnect the card wire from CN707.

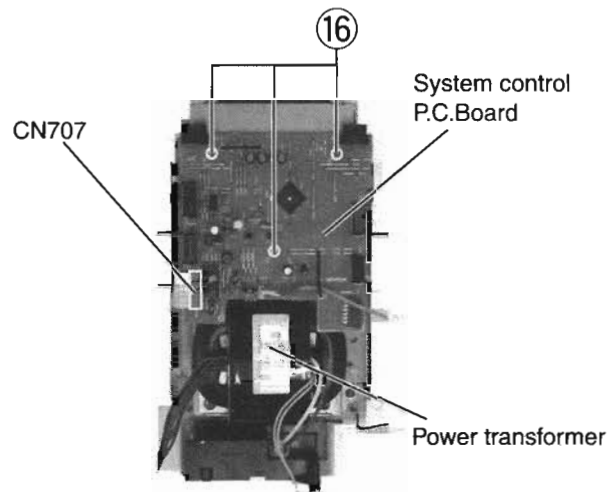


Fig.28

■ Removing Power transformer (see

1. Disconnect the socket wires from connector CN101 and CN102 on the power regulator P.C.Board. (see Fig.10)
2. Disconnect the socket wire from connector CN191 on the AC socket P.C.Board.
3. Remove the four screws ⑰ attaching power transformer.

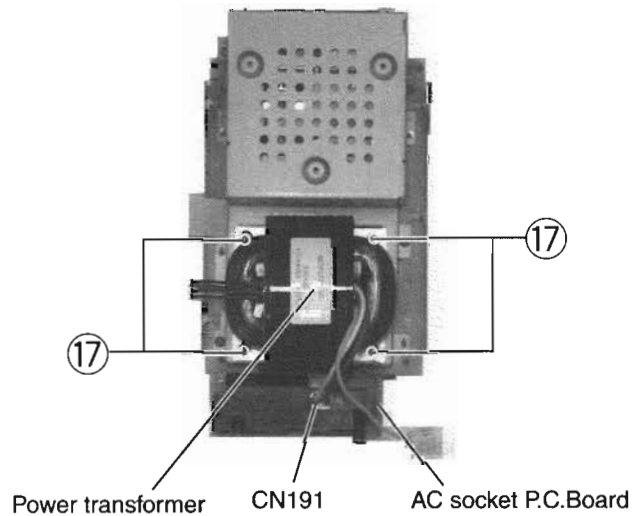


Fig.29

■ Removing AC socket board (see Fig.30)

1. Remove the two screws ⑱ attaching the board holder, then remove AC socket P.C.Board.

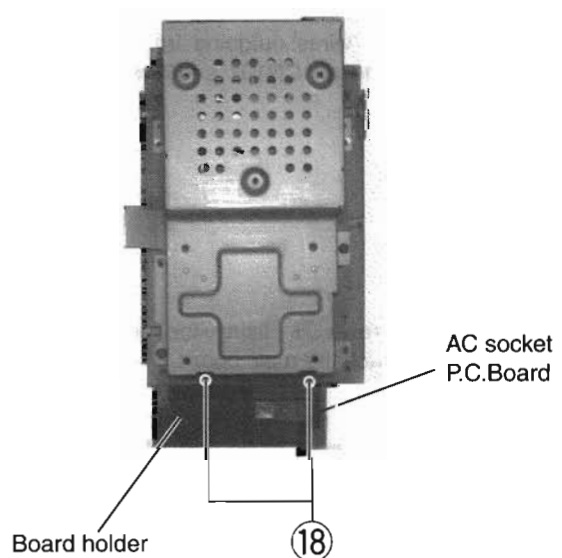


Fig.30

■ Removing MD mechanism assembly

(see Fig.31 and 32)

1. Remove the six screws ①⑨ attaching the cover.
2. Remove the two screws ②⑩ attaching MD mechanism assembly.
3. Move MD mechanism assembly to the rear side and detach it upwards at the point of the notch of base chassis.

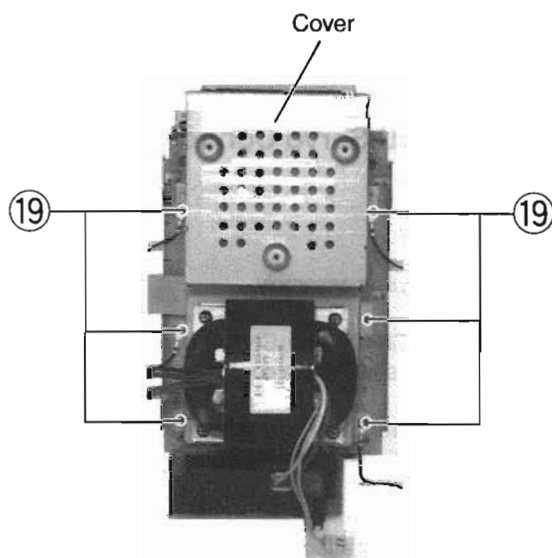


Fig.31

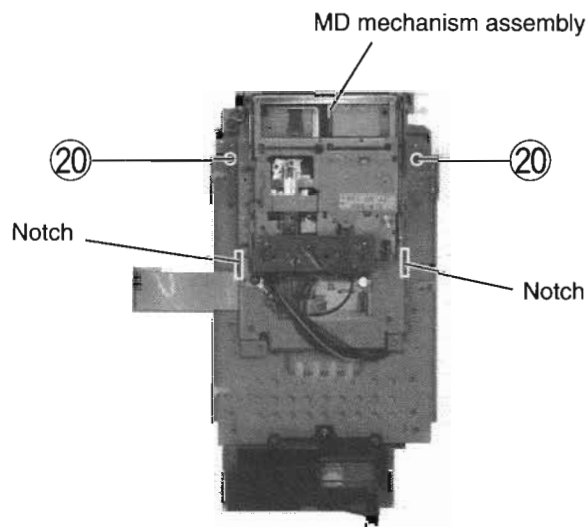


Fig.32

■ Removing Front P.C.Board (see Fig.33)

1. Remove the front panel assembly.
2. Remove the one screw ②⑪ attaching the front board. Expand and release joints D and E of the front board and front cabinet respectively.
3. Remove the one screw ②⑫ attaching the headphone P.C.Board.

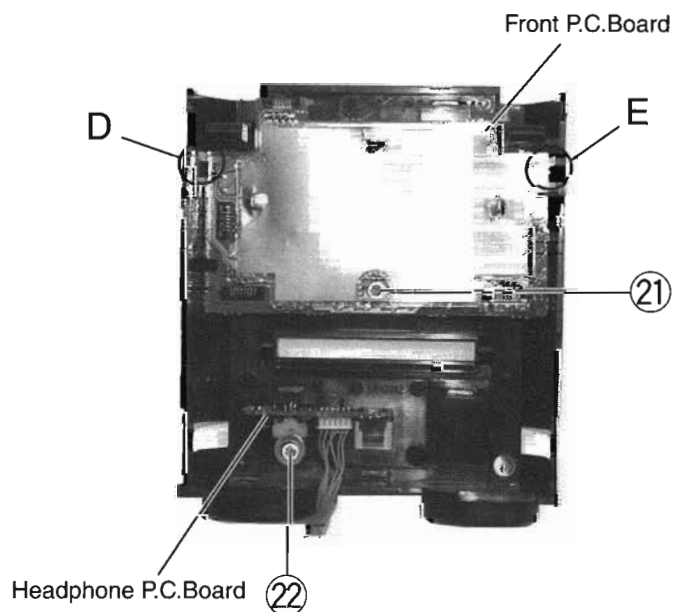


Fig.33

Removal of the MD Mechanism Assembly

1) Removing the MD Servo Control Board

(see Fig.1)

1. Remove the top cover.
2. Remove the MD mechanism assembly.
3. Disconnect connector CN407 and CN408 connected from the MD mechanism to the MD servo control board.
4. Solder the pattern clearance of the pickup to protect the pickup LD against static electricity damage. Disconnect connector CN321.
5. Remove the two screws ① attaching the MD servo control board. Draw Part A in the direction of the arrow to detach the MD servo control board.

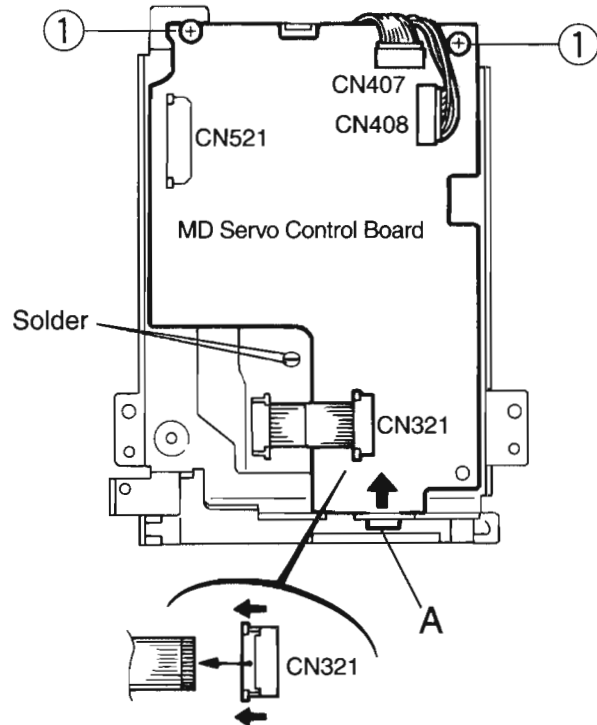


Fig.1

2) Removing the MD Mechanism (see Fig.2)

1. Remove the three screws ② attaching the MD mechanism.

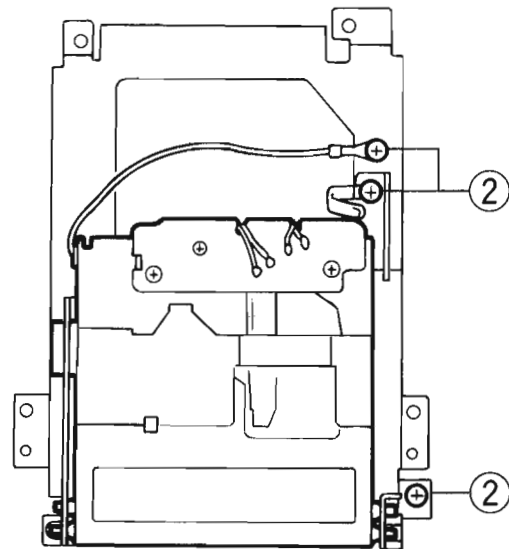


Fig.2

3) Removing the Magnetic Head(see Fig.3)

1. Turn the worm pulley of the MD mechanism to lower the magnetic head.
2. From the finestra on the top side of the MD mechanism, unsolder the two wires B soldered to the magnetic head.
3. Remove the one screw ③ attaching the magnetic head.
4. Draw the magnetic head so carefully as not to touch the Pickup lens.

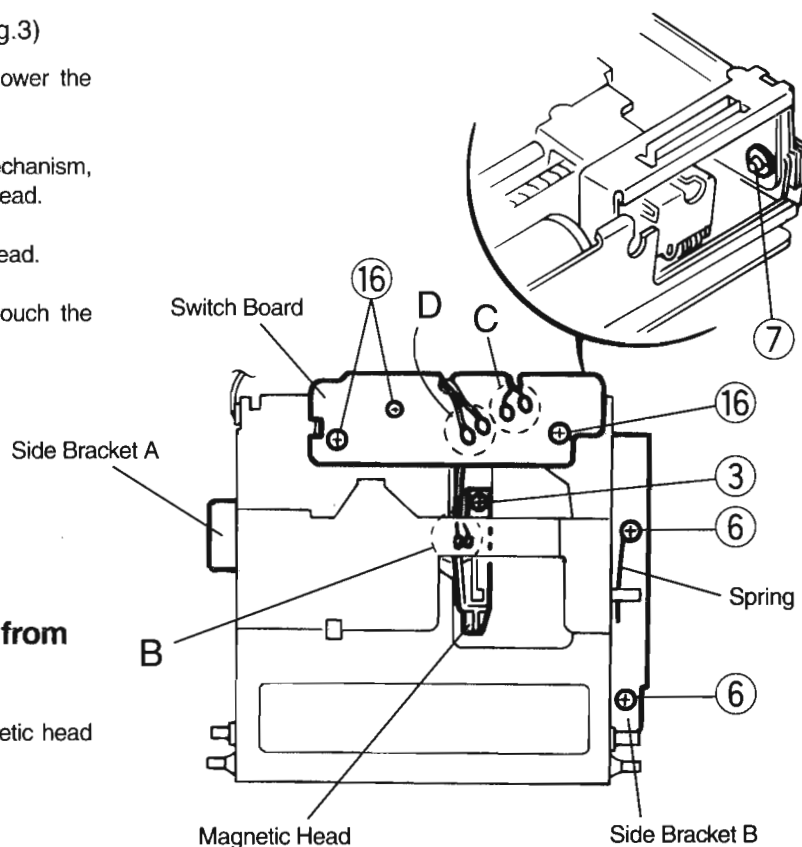


Fig.3

4) Removing the Loading Mechanism from the Traverse Mechanism (see Fig.3-6)

1. Unsolder the two wires C outgoing from the magnetic head and soldered to the switch board.
2. Remove the screw ⑧ attaching the head guide.
3. Remove the two screws ⑨ attaching the head assembly, and detach the head assembly carefully in the direction of the arrow to prevent damage to the magnetic head.
4. Remove the C washer ⑤ and two screws ④ attaching the side bracket A.
5. Remove the C washer ⑦ and two screws ⑥ attaching the side bracket B (The spring comes off).

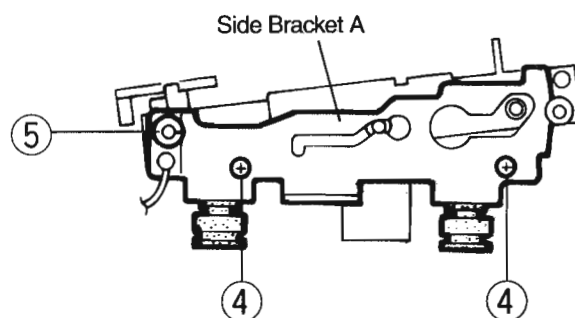


Fig.4

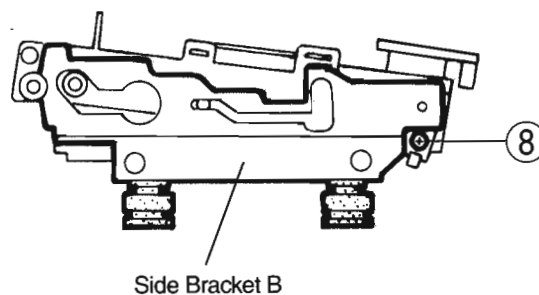


Fig.5

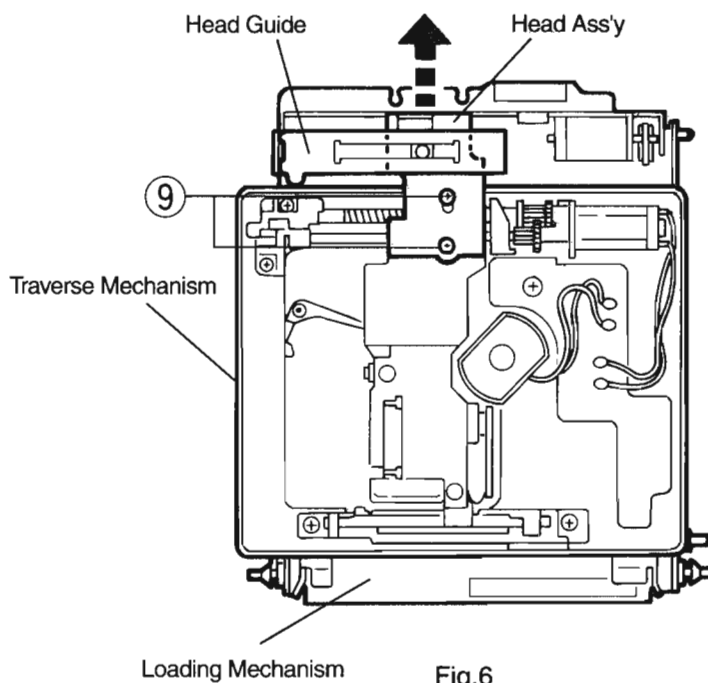


Fig.6

5) Removing the Pickup Unit (see Fig.7)

1. Turn the traverse mechanism assembly upside down, and remove the two screws ⑨ attaching the pickup and the head assembly.
2. Remove the screw ⑩ attaching the guide shaft A.
3. Draw the guide shaft A in the direction of the arrow to remove the pickup unit.

6) Reassembling the Pickup Unit (see Fig.7)

1. Insert the guide shaft A in the pickup unit.
2. Fit Part E to the guide shaft B to attach the pickup. Then, tighten the one screw ⑩ and two screws ⑨.

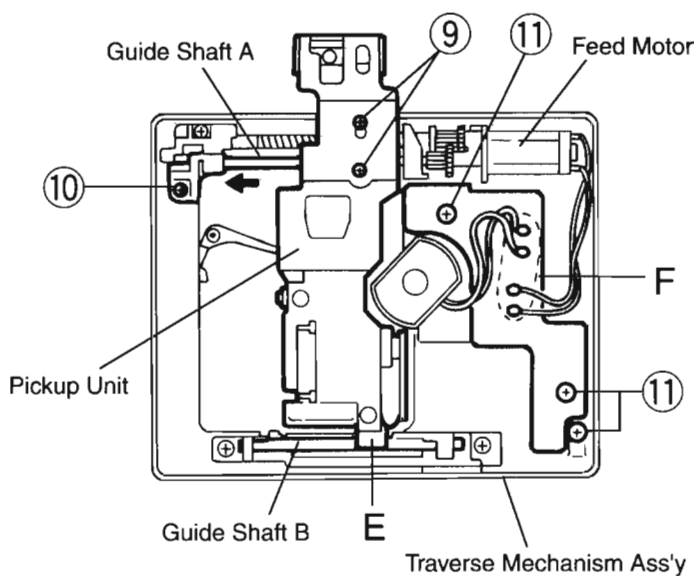


Fig.7

7) Removing the Feed Motor Assembly

(see Fig.7 and 8)

1. Turn the traverse mechanism upside down, and remove the three screws ⑪ attaching the board and switch.
2. Unsolder the four motor wires F soldered to the board, and detach the board from the mechanism base.
3. Remove the two screws ⑫ attaching the motor bracket. Detach the feed motor.

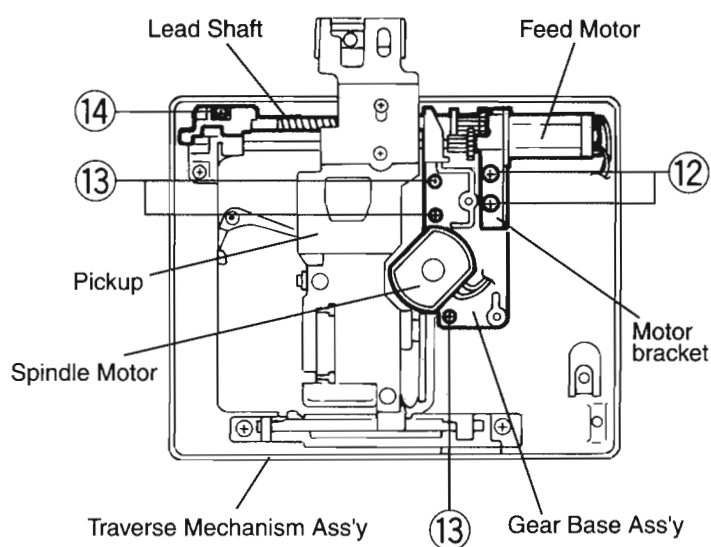


Fig.8

8) Removing the Spindle Motor Assembly

(see Fig.8 and 9)

1. Turn the traverse mechanism assembly upside down, and remove the pickup following the procedure mentioned in 5)(see Fig.7).
2. Remove the feed motor assembly following the procedure mentioned in 7)(see Fig.7 and 8).
3. Draw the turn table.
*Please use a new turntable because the detached turntable has the possibility to distort.
4. The removed turn table may be Remove the three screws ⑬ attaching the gear base assembly.
5. Remove the one screw ⑭ attaching the lead shaft. Detach the lead shaft together with the gear base assembly and the magnet.
6. Remove the two screws ⑮ attaching the spindle motor.

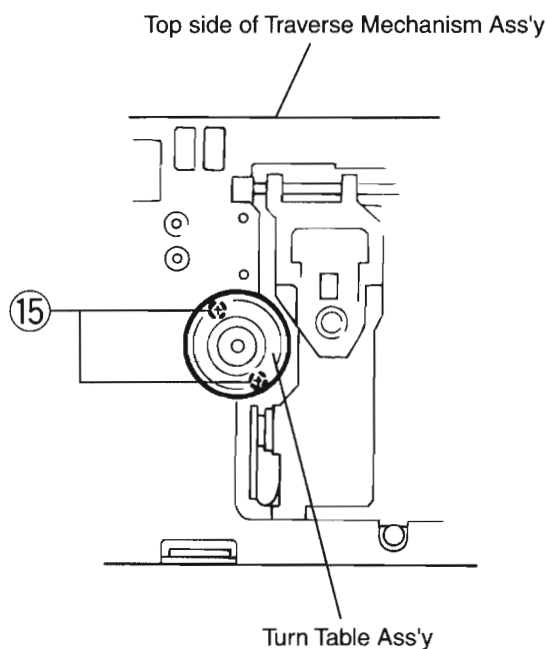


Fig.9

9) Removing the Loading Motor Assembly

(see Fig.3,10-12)

1. Unsolder the two wires D outgoing from the loading motor. Similarly, unsolder the two wires C outgoing from the magnetic head (see Fig.3).
2. Remove the three screws ⑩ attaching the switch board (see Fig.3).
3. Remove the three screws ⑪ attaching the loading motor assembly.
4. Remove the two screws ⑫ attaching the loading motor.

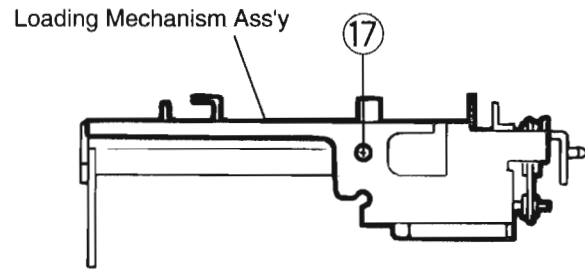


Fig.10

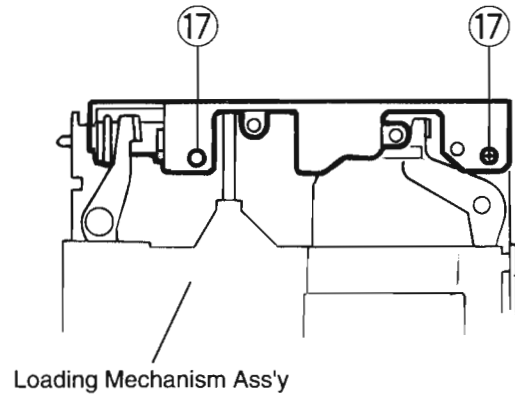


Fig.11

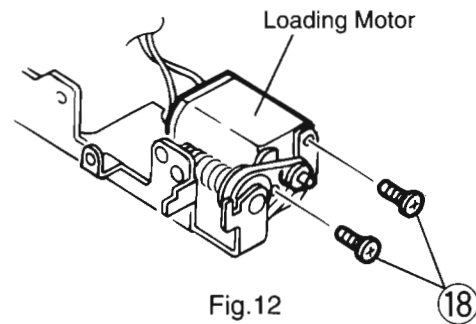


Fig.12

10) Attaching the Parts to the Motors

1. Figure 13 shows how to attach the turn table assembly to the spindle motor.
2. Figure 14 shows how to attach the gear to the feed motor.
3. Figure 15 shows how to attach the pulley to the loading motor.

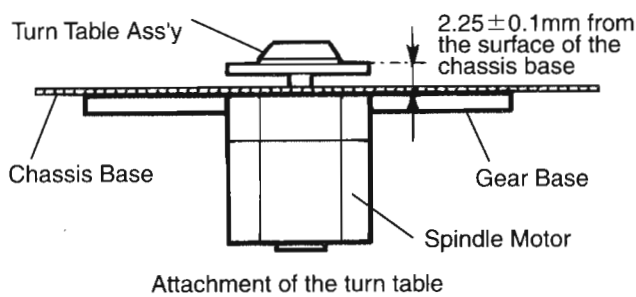


Fig.13

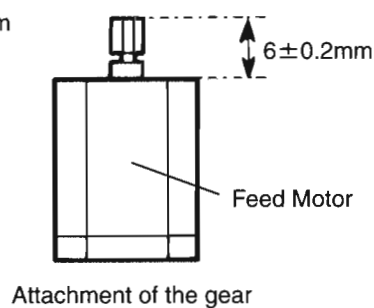


Fig.14

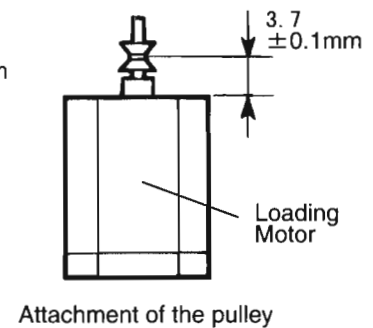


Fig.15

11) Disassembling the Loading Mechanism

1. Detach the traverse mechanism assembly from the loading mechanism assembly following the procedure mentioned in 4) (see Fig.3~6).
2. Detach the loading motor assembly following the procedure mentioned in 9) (Unsolder the two wires D and remove the three screws ⑰ only)(see Fig.10~12).
3. Turn the gear B counterclockwise to move the C.D.B. sub assembly to the position shown in the Fig.16.
4. Push the slide cam assembly outside and remove the C.G.B. sub assembly.

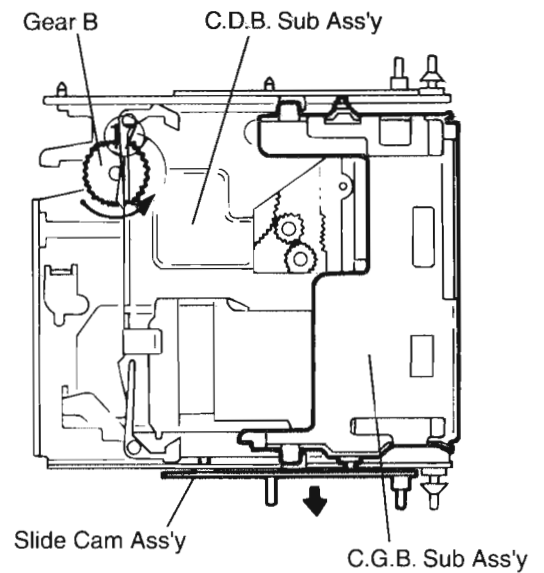


Fig.16

5. Remove the gear A.
6. Move the C.D.B. sub assembly in the direction of the arrow, and detach it from the drive base.

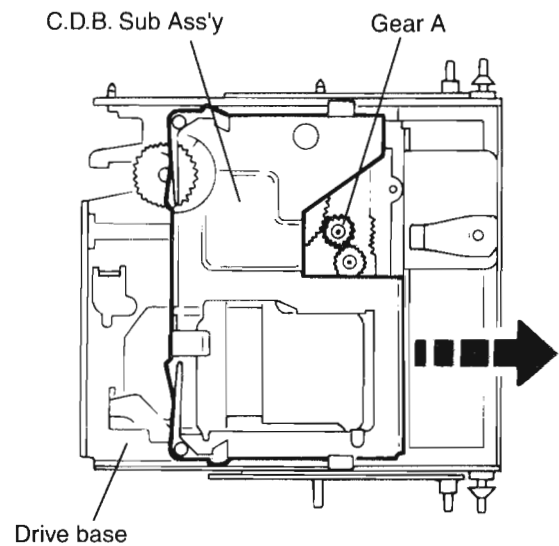


Fig.17

12) Reassembling the Loading Mechanism Assembly (see Fig.18-22)

1. Attach the main gear, gear B, gear C and rack to the drive base.

Note: Fit the slot G of the main gear to the hole of the drive base.

2. Insert the boss of the C.D.B. sub assembly into the slot I. At the same time, insert boss H of the rack into slot J of the C.D.B. sub assembly, then move the C.D.B. sub assembly in the direction of the arrow until it stops.

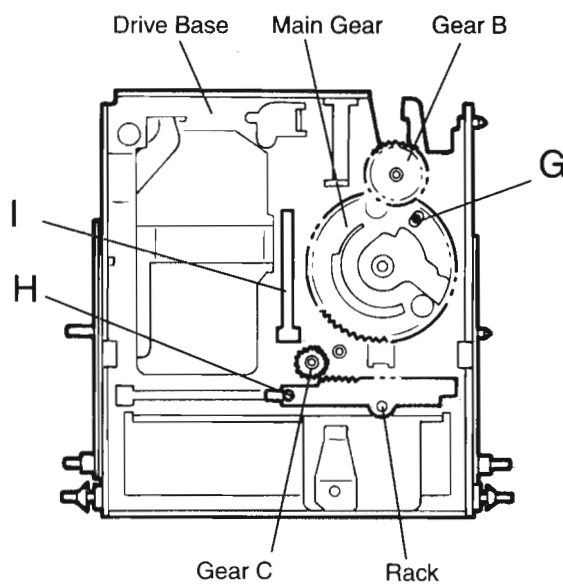


Fig.18

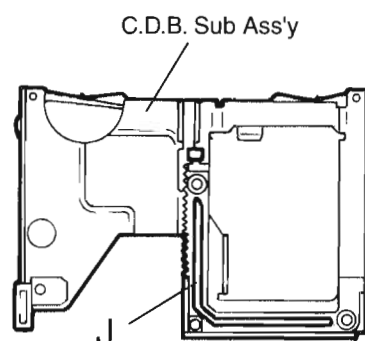


Fig.19

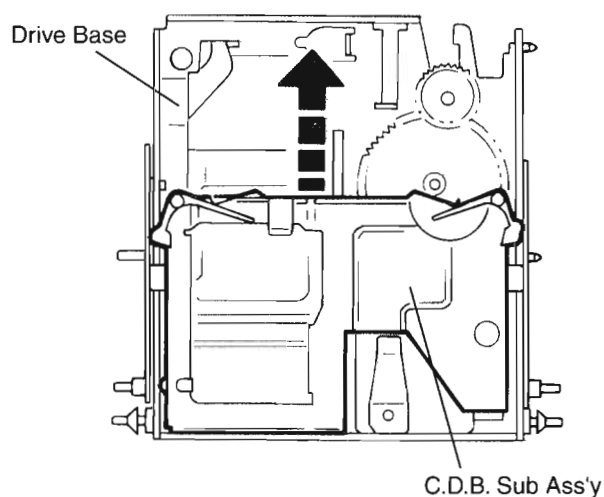


Fig.20

3. Check the three positions of the main gear and the rack set as shown in Fig.21.
4. Attach the gear A.
5. Insert one boss of the C.G.B sub assembly into the hole of the drive base. Pushing the slide cam assembly outside, insert the other boss of the C.G.B. sub assembly into the hole of the base.

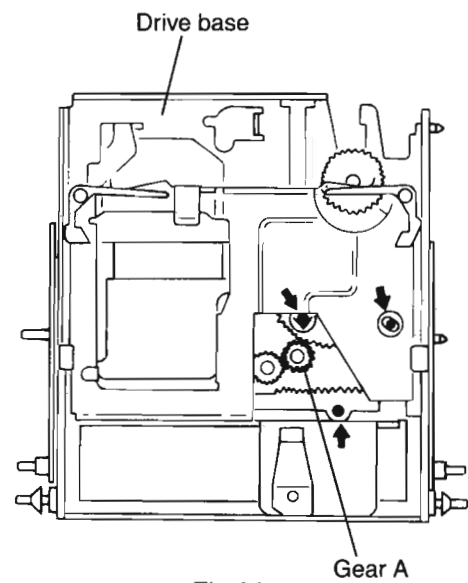


Fig.21

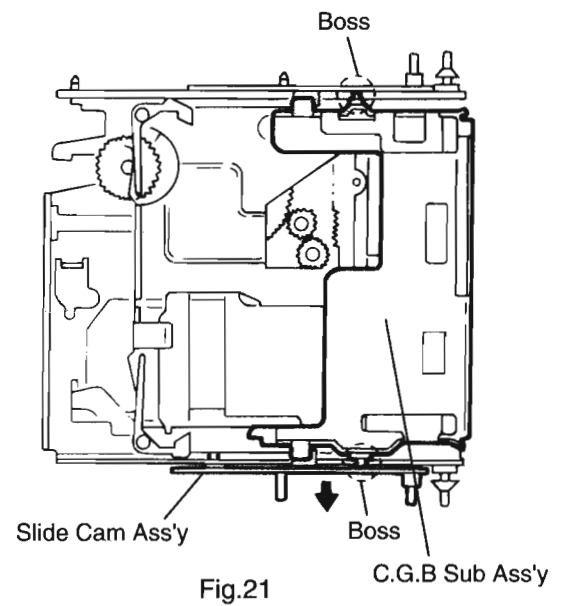


Fig.21

Adjusting method (MD section)

1. Equipment necessary for adjustment

Oscilloscope
 Laser power meter (Advantest TQ8210 or equal goods)
 Sensor for Laser power meter (or the disc type sensor)
 MD test disc "MRG-1018"
 MD recordable disc

2. Setting of test mode

The test mode is turned on and the adjustment of an electric circuit is adjusted. The source is made MD. FL Display lights all when [POWER],[STOP] and [VOLUME-] keys of remote control are pushed at the same time one second or more.
 It is displayed when [EDIT/TITLE] key of remote control is pushed at this time as 'TEST MODE', and enters the test mode.

3. Initialization of EEPROM

In the test mode state then the remote control push the [DISPLAY/CHARA] key and clear till then adjustment data in EEPROM.
 Performed in case of this operate, should be finish the adjustment completely.

4. Adjusting method

Insert the sensor of laser power meter to MD mechanism unit from diagonal furnace Or, the disk type sensor is inserted from a main body front side. **The laser ten times or more a past CD player is output so that this machine may record magnetism. Please note that occasionally touches looking straight at the laser beam, and the body enough when you confirm the operation not to mention adjusting.**
Moreover, please note the wound taintless by the one of all surroundings recording on the disk used because the adjustment is automatically done by the disk confirmation after the laser power is adjusted and a set value is written.

Item	Adjusting method	Adjustment location	Standard value	
1. Laser power adjustment	<p>(1) The laser power emits light by playback power when [BASS] key to remote control is pushed. It is displayed as 'LPOWER PLAY'. This laser light is measured with the laser power meter. The [UP] key (laser power UP) and the [DOWN] key (laser power DOWN) are adjusted by remote control pushing.</p> <p>(2) The laser power emits light by recording power when [TREBLE] key to remote control is pushed. It is displayed as 'LPOWER REC'. This laser light is measured with the laser power meter. The [UP] key (laser power UP) and the [DOWN] key (laser power DOWN) are adjusted by remote control pushing.</p> <p>(3) Please push the [CANCEL] key to after pushing the [STOP] key to after the adjustment ends. It is displayed respectively as 'STOP' and 'EJECT'.</p>	[UP] Key to remote control and [DOWN] Key	<p>(1) In 0.68mW or more, a value close to 0.68mW</p> <p>(2) In 6.23mW or less, a value close to 6.23mW.</p>	Note) Please go carefully because the adjustment here might destroy the laser diode.

Item	Adjusting method	Adjustment location	Standard value	
2.Disc confirmation	<p>(1) After the laser power is adjusted, Premaster disc is inserted. It is displayed when MD ► key is pushed by remote control as 'ON C MODE' in the display, and ends around 7 seconds the adjustment. 'OK C MODE' or the 'NG C MODE' is displayed in the display. Please push the [CANCEL] key to after pushing the [STOP] key to after the adjustment ends.</p> <p>(2) Recording disc is inserted. It is displayed when MD ► key is pushed by remote control as 'ON C MODE' in the display, and ends around 15 seconds the adjustment. 'OK C MODE' or the 'NG C MODE' is displayed in the display. Please push the [CANCEL] key to after pushing the [STOP] key to after the adjustment ends.</p> <p>(3) Confirm each operation in the independent operation mode when it is displayed according to procedure (1) and (2) as 'NG C MODE'</p>	There is no adjustment location because it is a self adjustment.		Note) Please confirm the disc confirmation after adjusting the laser power without fail. Moreover, the disk used by the disc confirmation must include neither wound nor dirt, etc. Recording disc must use the disc of all surroundings record.

5.Check (Independent operation mode)

Please check makes to the test mode .

Operation	Remote control key
FOCUS ON -----	SLEEP
PIT ROUGH SERVO -----	PROGRAM
GROOVE ROUGH SERVO -----	RANDOM
TRACKING ON -----	REPEAT
TRACKING OFF-----	{ DISPLAY MODE(Only Europe area) DIMMER(Except Europe area)

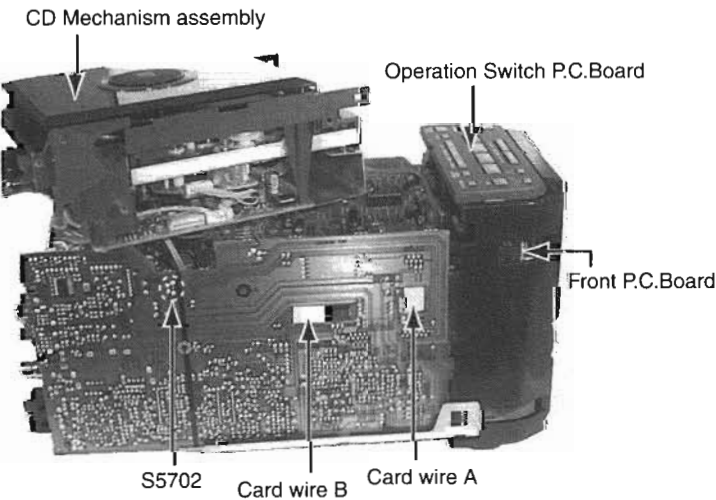
6.Test mode end method

If the power supply is turned off once pushing 'POWER' key, the test mode is released when the adjustment and the confirmation end.

CD Section

There is no adjustment in the part CD.
Do as follows by the method when you do the operation confirmation detaching the CD mechanism part from the main body.

- 1.Remove the CD mechanism assembly.
- 2.Operation Switch P.C.Board is detached from the CD mechanism assembly, and Operation Switch P.C.Board is connected with Front P.C.Board.
- 3.Card wire A and B connected with the CD mechanism assembly are made an extension wire.
- 4.Switch S5702 on the substrate is short-circuited.
- 5.The disk is turned on, and the CD door is closed.
- 6.The power supply is turned on, and CD is reproduced.

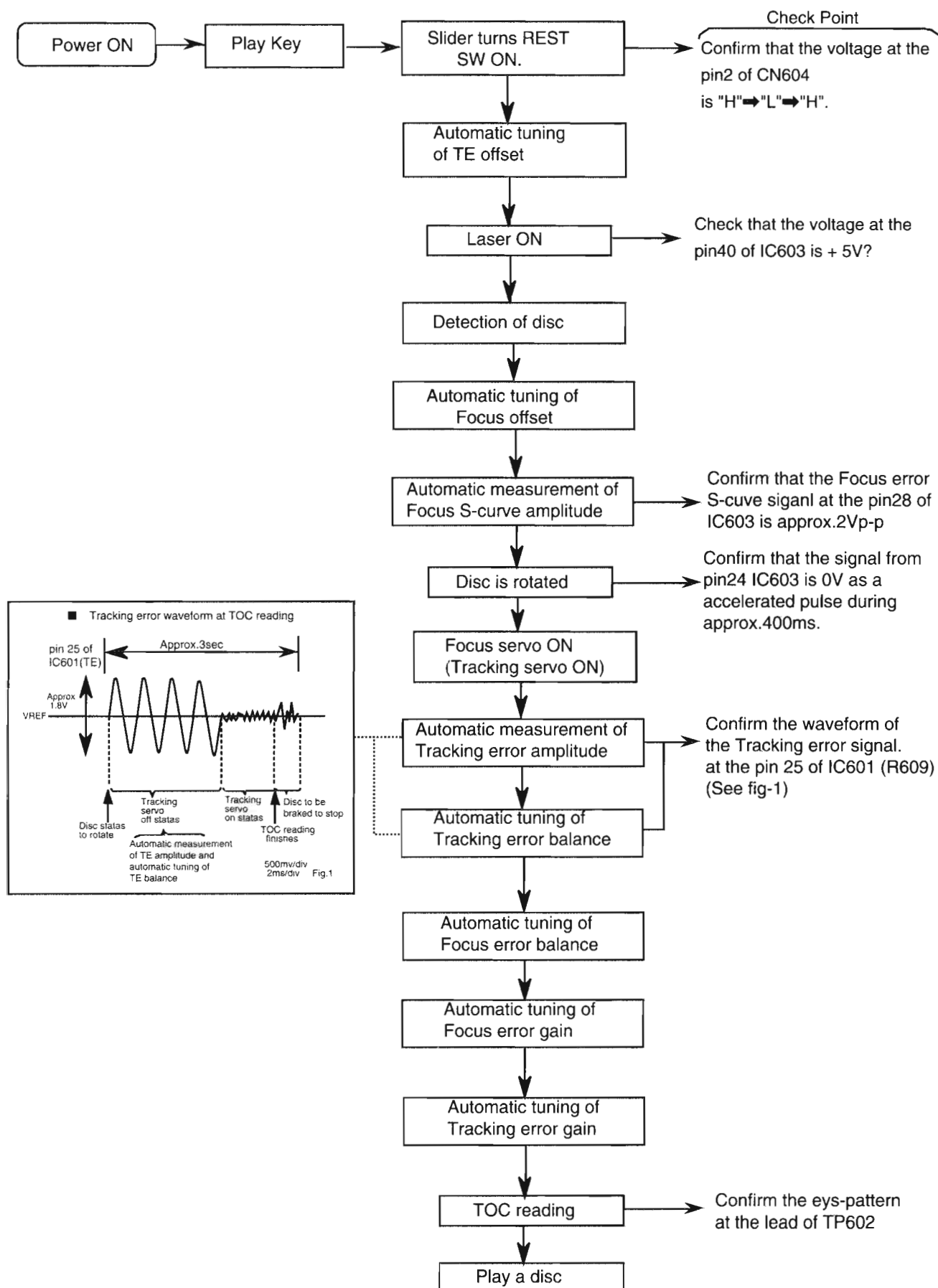


Extension wire

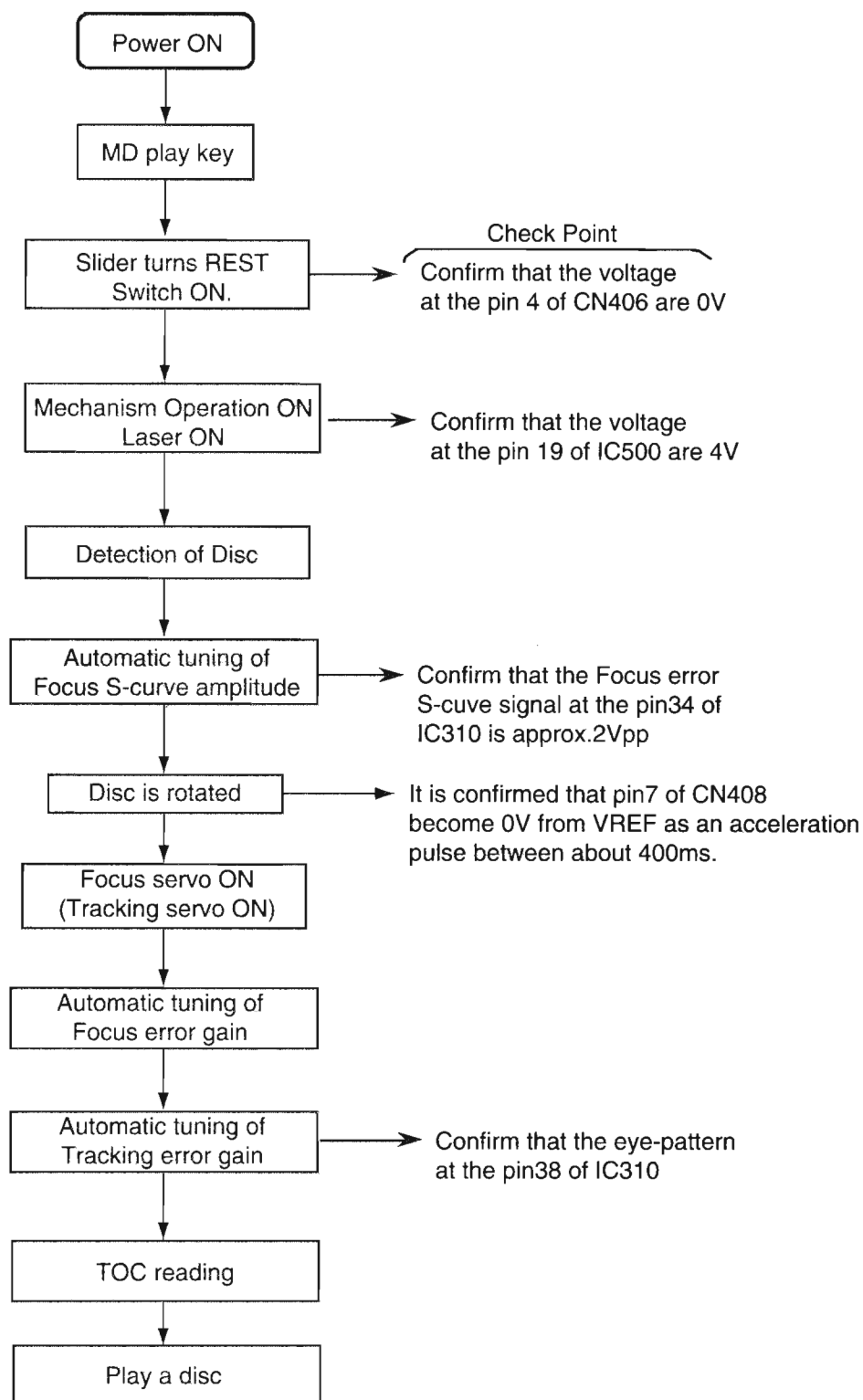
Card Wire A
CN502 to CN603
Parts No. VWF1207-20TTB

Card Wire B
CN708 to CN604
Parts No. VWF1212-25TTB

Flow of Functional Operation Until TOC Read (CD)



Flow of Functional Operation Until TOC Read (MD)



CD Section

Maintenance of Laser Pickup Replacement of Laser Pickup

(1) Cleaning the pick up lens

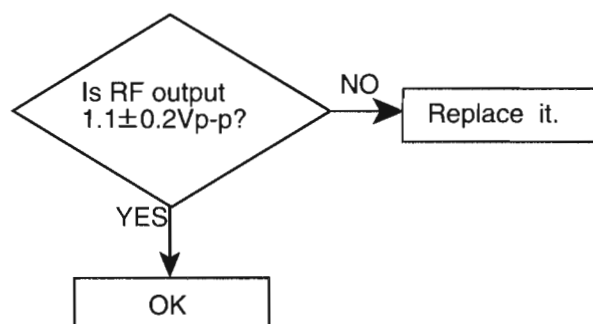
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode (Fig.1)

When the life of the laser diode has expired, the following symptoms will appear.

- 1.The level of RF output (EFM output:amplitude of eye pattern) will below.
- 2.Driving current necessary to issue the laser diode increases.

Please confirm longevity according to the following flow chart.



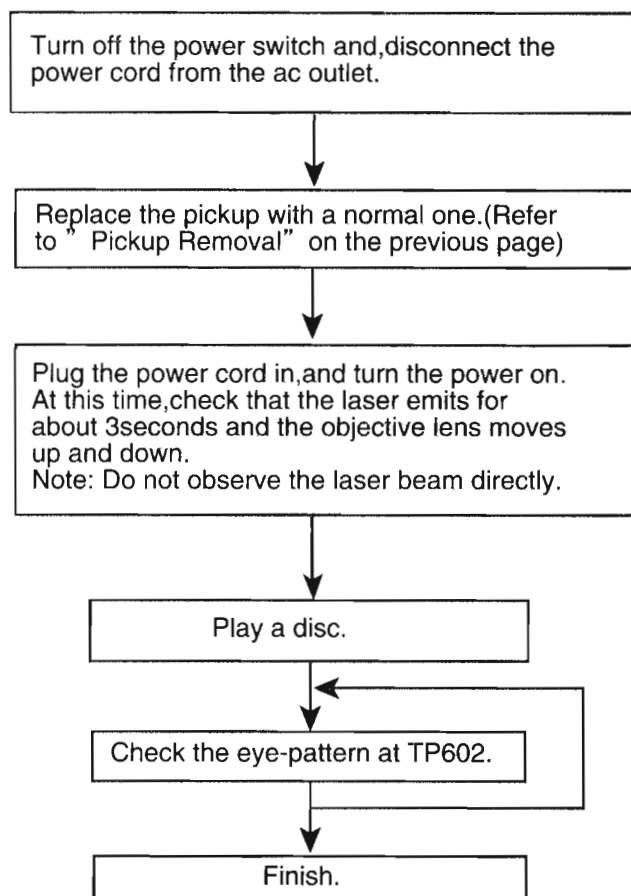
(Fig.1)

(3) Semi-fixed resistor on the APC PC board

The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.

If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced.

If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.



MD Section

Maintenance of Laser Pickup

(1) Cleaning the pick up lens

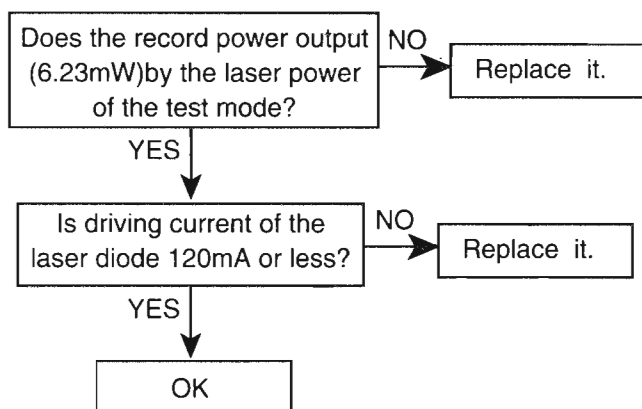
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode (Fig.1)

When the life of the laser diode has expired, the following symptoms will appear.

1. The level of RF output (EFM output: amplitude of eye pattern) will below.
2. It is not possible to record.
3. Driving current necessary to issue the laser diode increases.

Please confirm longevity according to the following flow chart.



(Fig.1)

(3) Method of measuring driving current of laser diode

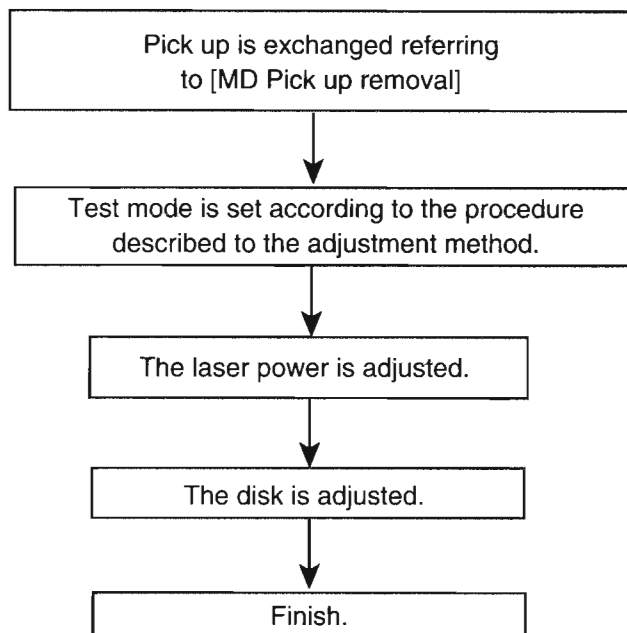
The voltage of R337 of the MD servo control substrate is measured, and it is judged that the longevity of the laser diode disappeared for 120mV or more.

(4) Semi-fixed resistor on the APC (Auto power control) P.C. board

The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power. Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.

If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced. If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

Replacement of Laser Pickup



Attention

Compare with previous CD players, over 10times laser beam is radiated from this model because of the magnetic recording.

Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

The wound and note taintless on the disk used because the adjustment is automatically done by the disk confirmation after the laser power is adjusted, and a set value is written by all the recorded one.

Self Diagnosis Function of CD

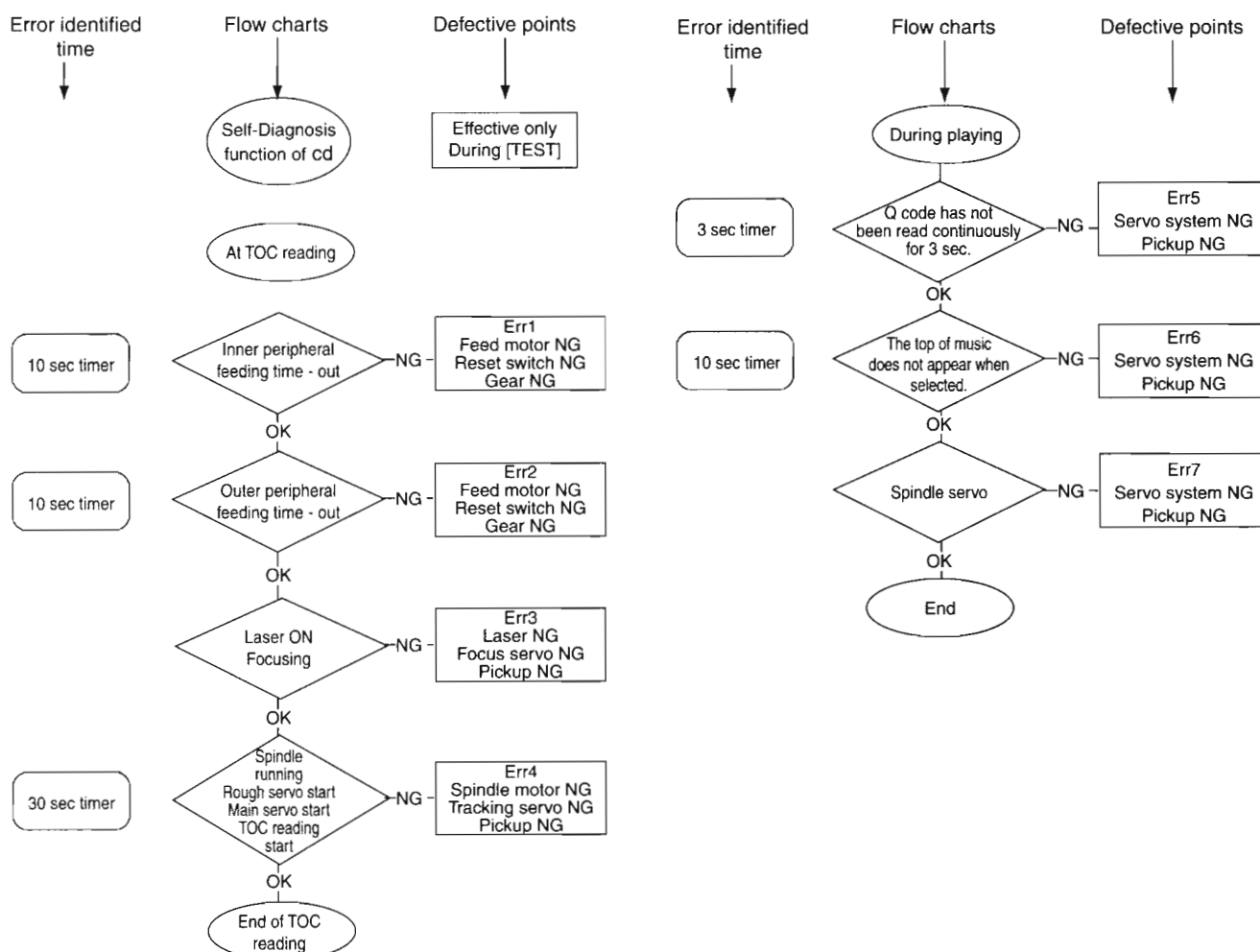
1. Purpose

This function is designed to display an error to readily clarify the cause of such an error should any trouble occur in CD.

2. How to Use the Function

- (1) Turn the microcomputer action of the set to [TEST] mode.
- (2) Press **STOP** + **VOLUME-** + **POWER** on the remote control same time.
Confirm that all of the LCDs have been turned on when set to the [TEST] mode subsequent to the step in item (2).
- (3) When the CD trouble has occurred after starting CD, an error code will be displayed on the display section of LCD, etc.

3. Error code and location in trouble

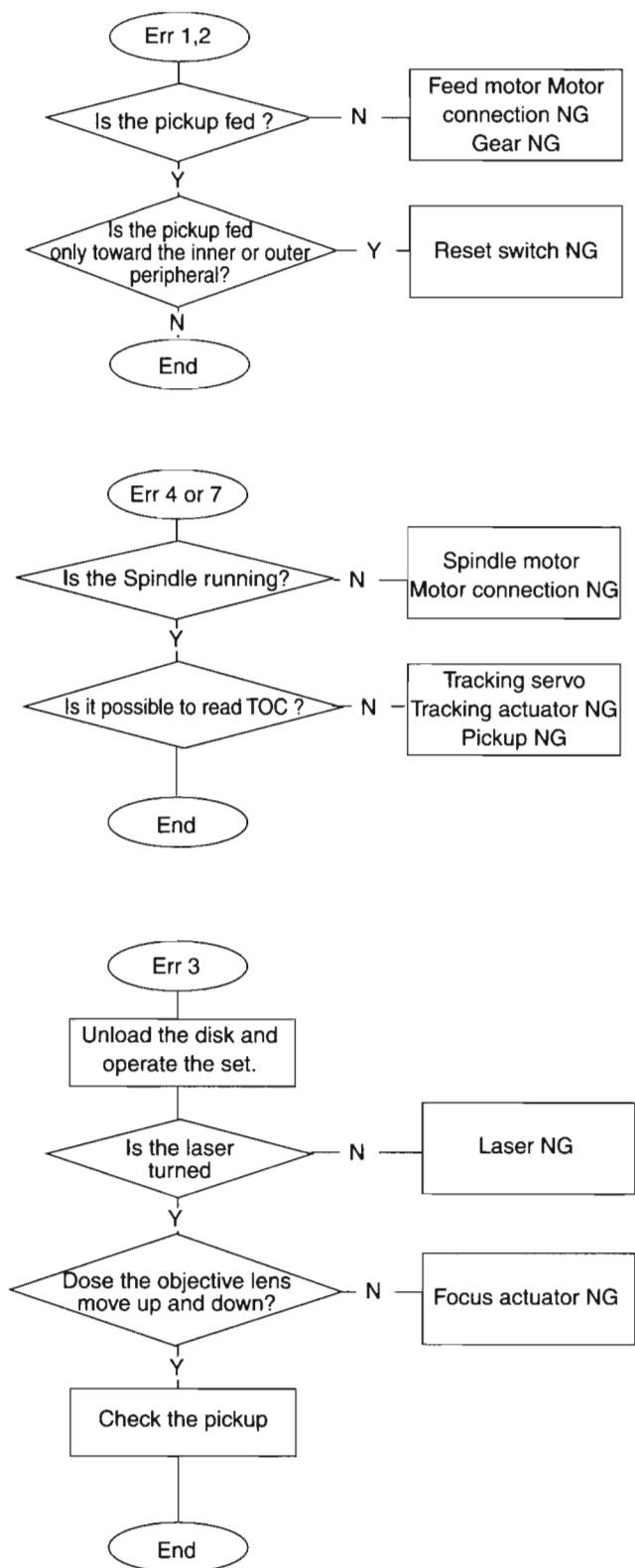


UX-MD9000R

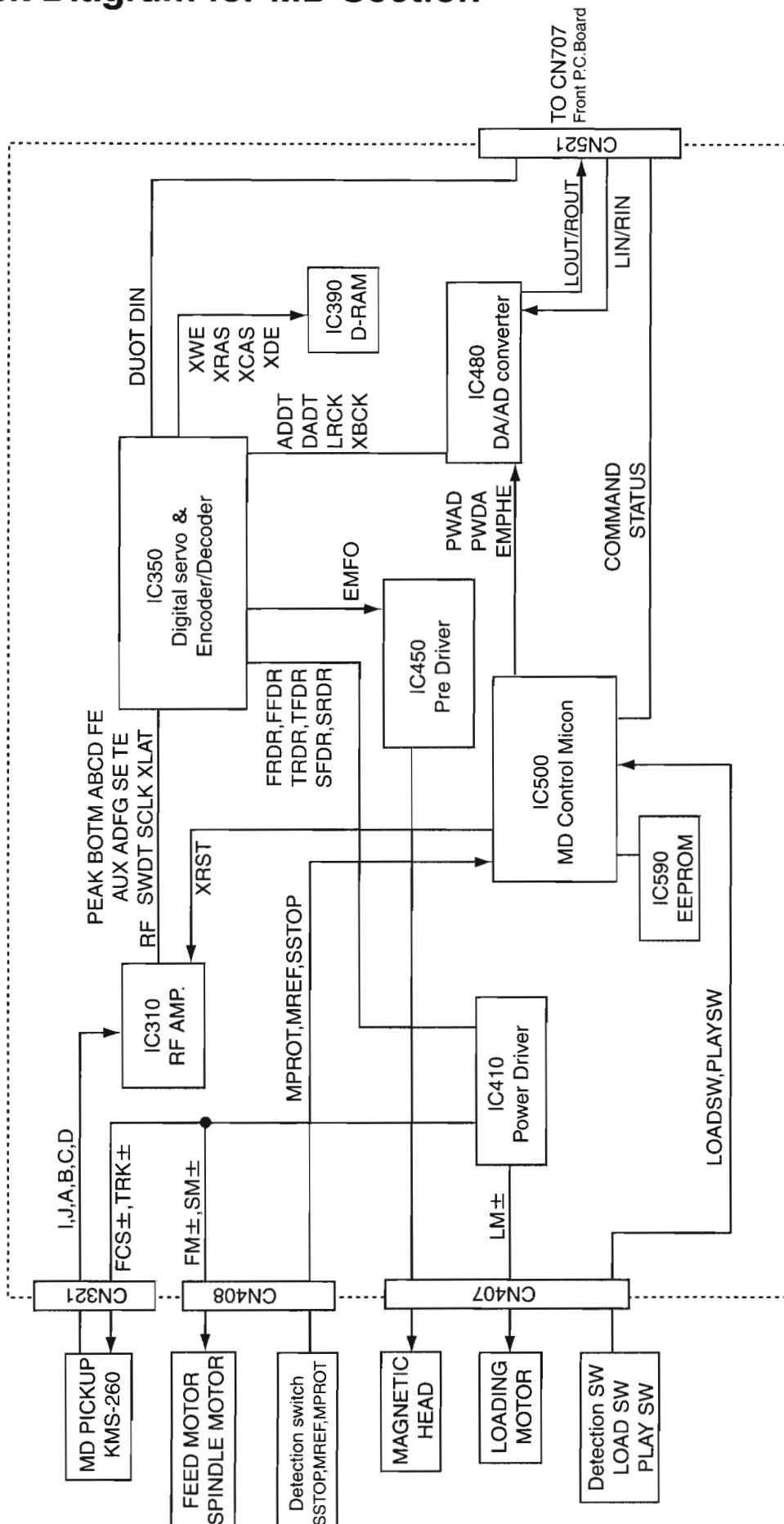
Error identified
time

Flow charts

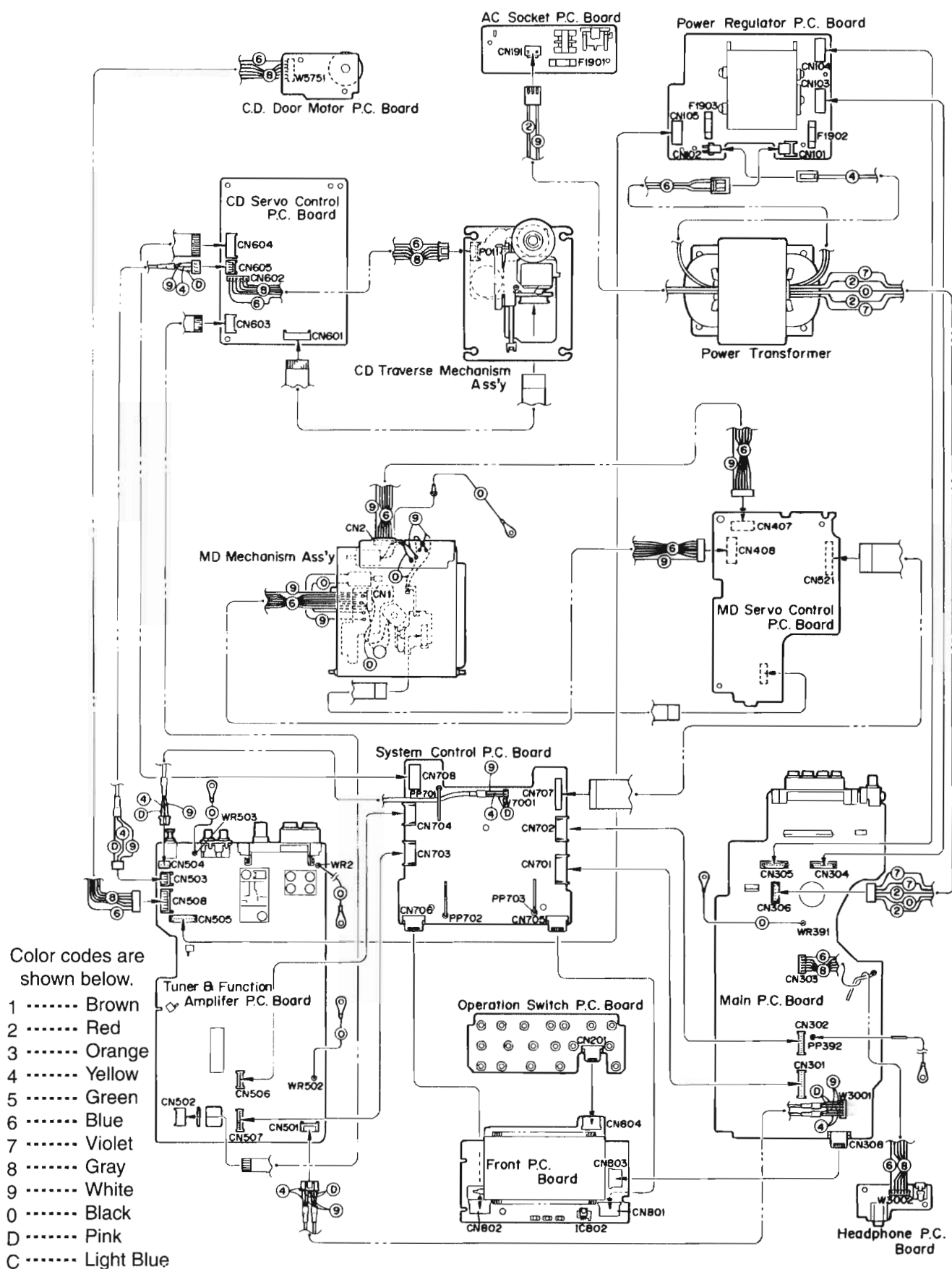
Defective points



Block Diagram for MD Section

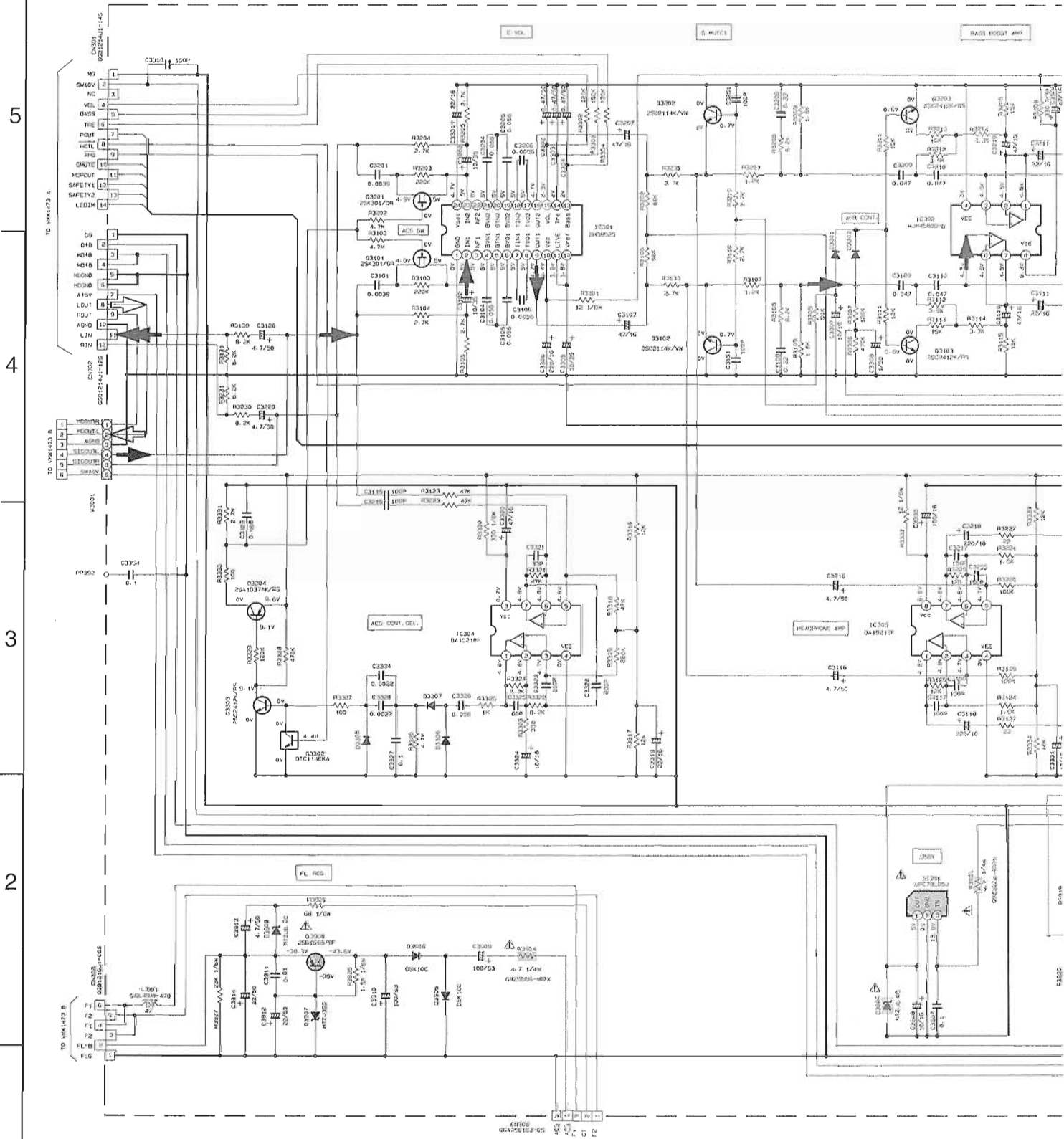


Wiring Connections



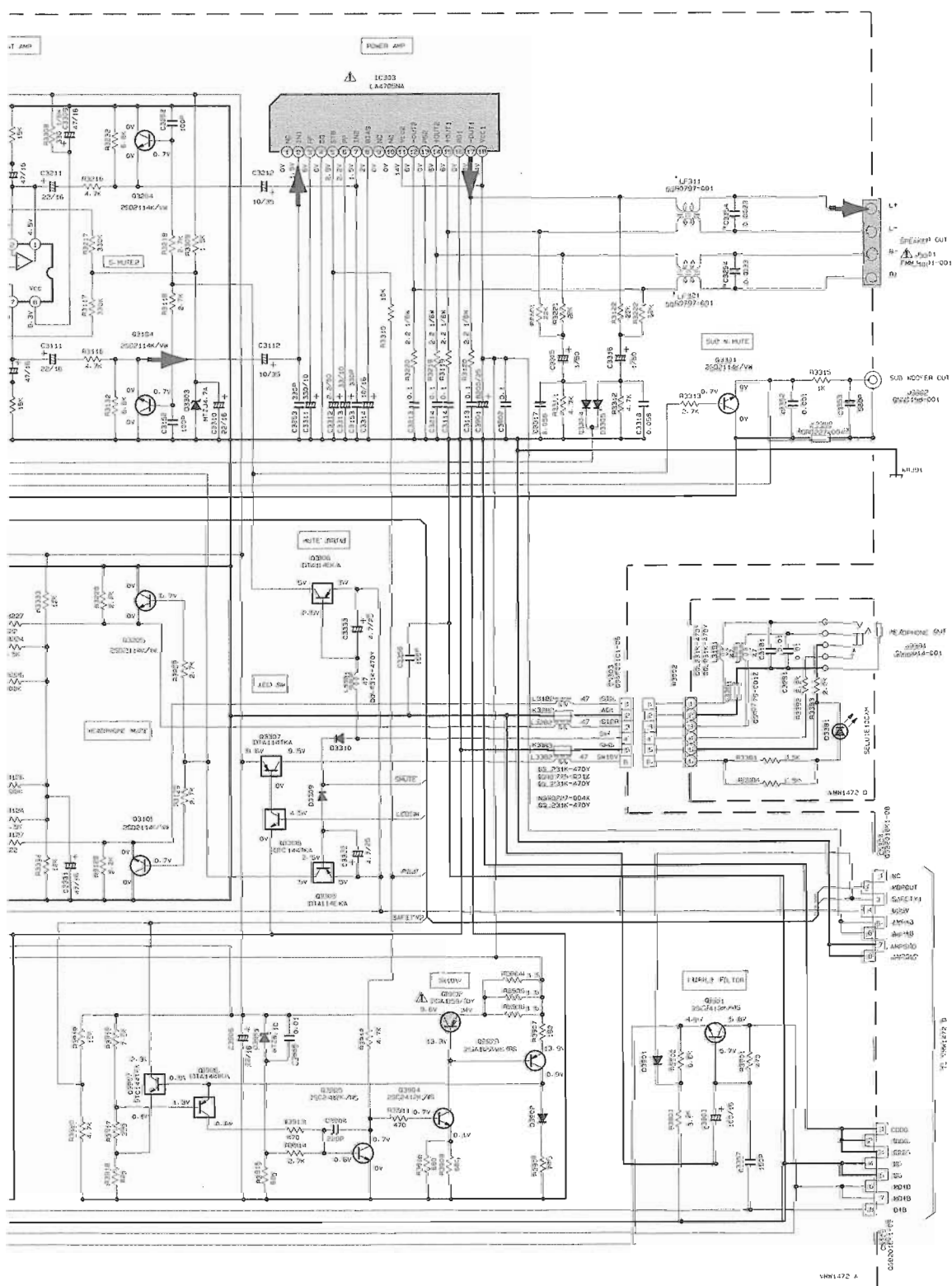
Schematic Diagrams

■ MAIN AMP. Section



1. VOLTAGES ARE MEASURED WITH A DIGITAL VOLT METER
ON OSCILLOSCOPE WITHOUT INPUT SIGNAL
CONDITION --- FLAT ON STOP MODE
2. ALL RESISTANCE VALUES ARE IN OHMS
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACIT
ALL CAPACITANCE VALUES ARE IN μF OR pF
ALL INDUCTANCE VALUES ARE IN mH OR H
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE
ALL DIODES ARE 1SR254

* E/EN/B/EE ONLY






WOLFE ET AL.


MYLAR CAPACITORS

C CAPACITANCE, (F)/FIXED VOLTAGE (V).

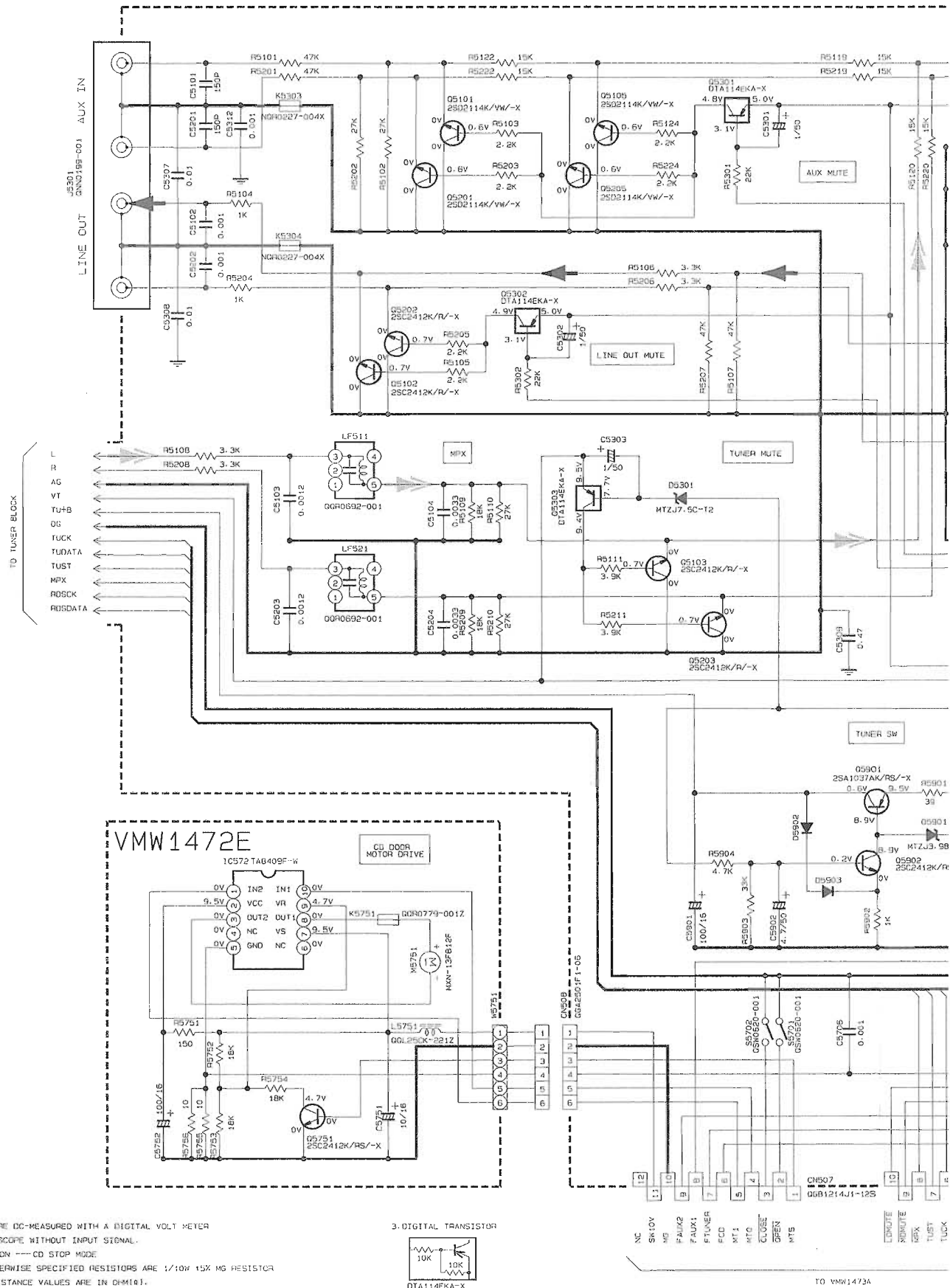


MODEL: UX-MD9000R
FS-MD9000
FS-MD10 UX-MD9000

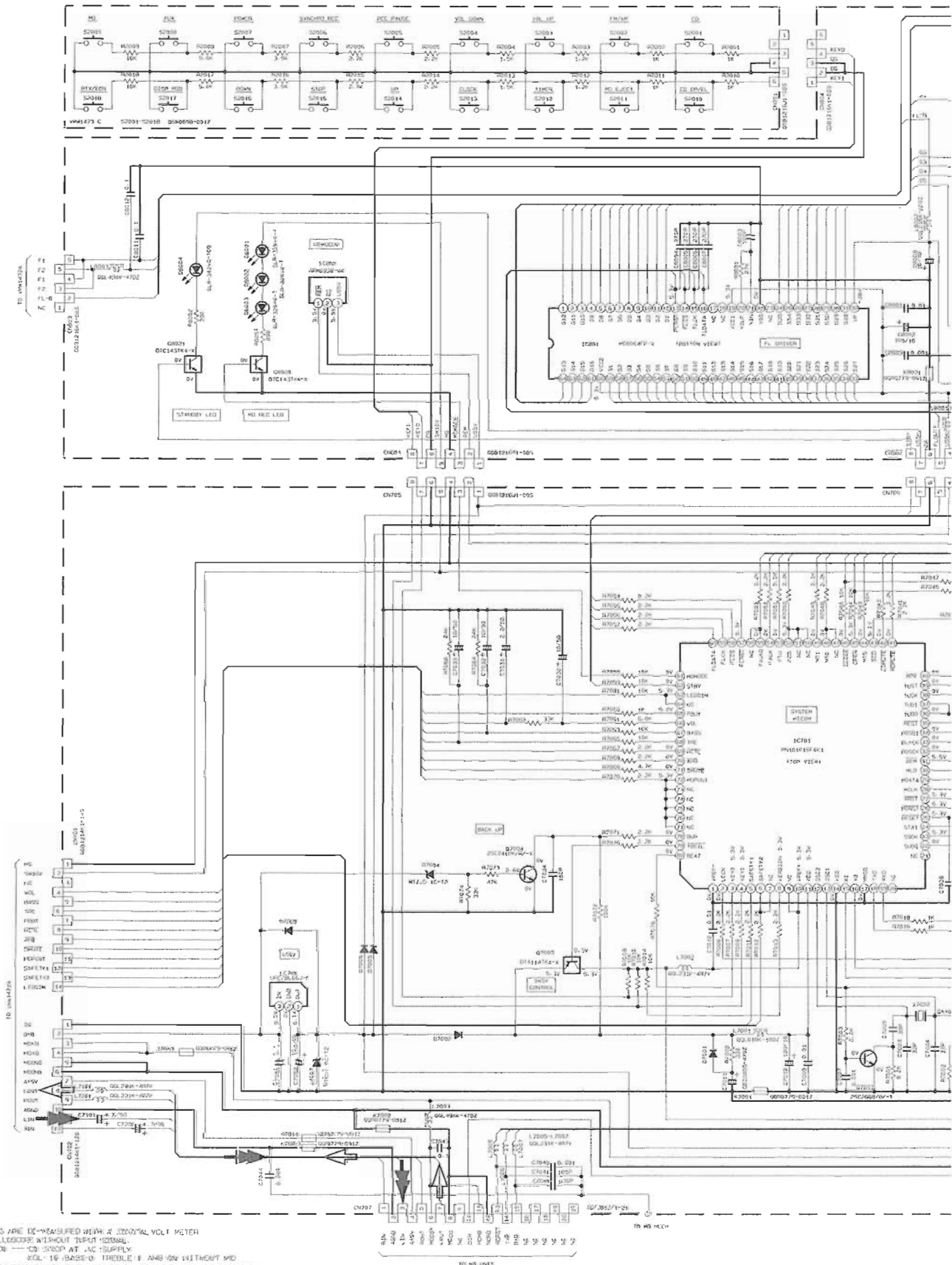
-  MAIN SIGNAL
 MD PLAY SIGNAL
 MD REC SIGNAL

 Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

FUNCTION & CD DOOR MOTOR DRIVER Section



System Controller & FL Display Section



NOTES

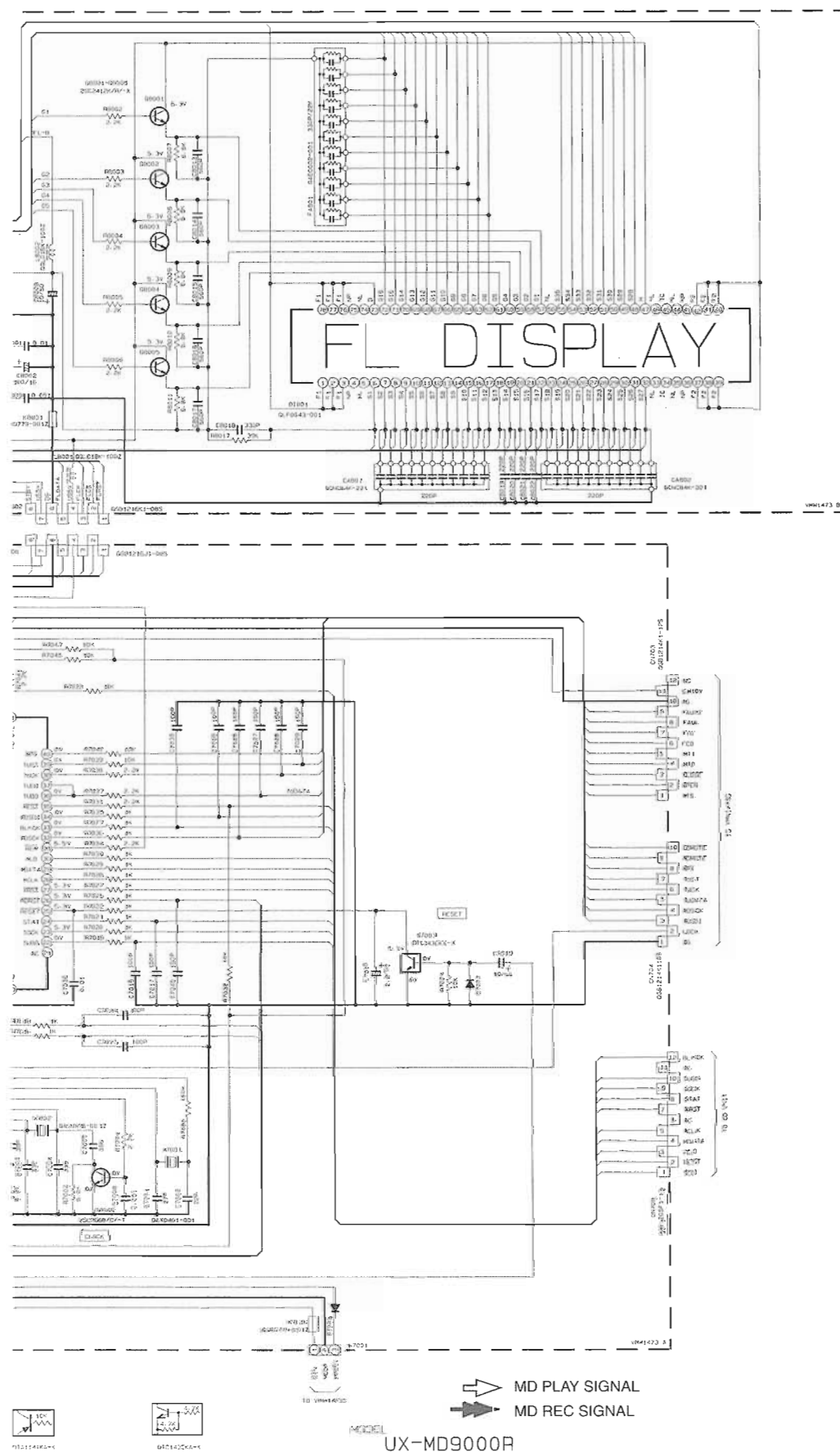
1. VOLTAGES ARE DC-MEASURED WITH A CENTRAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP AT AC SUPPLY.
VOLTAGE IS 16 VOLTAGE THREE IS 16 VOLTAGE WITHOUT VPD.
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/4W 5% MS RESISTOR.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL CAPACITANCE VALUES ARE IN PICO-FARADS.
ALL INDUCTANCE VALUES ARE IN MICRO-HENRYS.
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE, CAPACITANCE, VOLTAGE, AND ALL VALUES ARE 25°C ± 10°C.



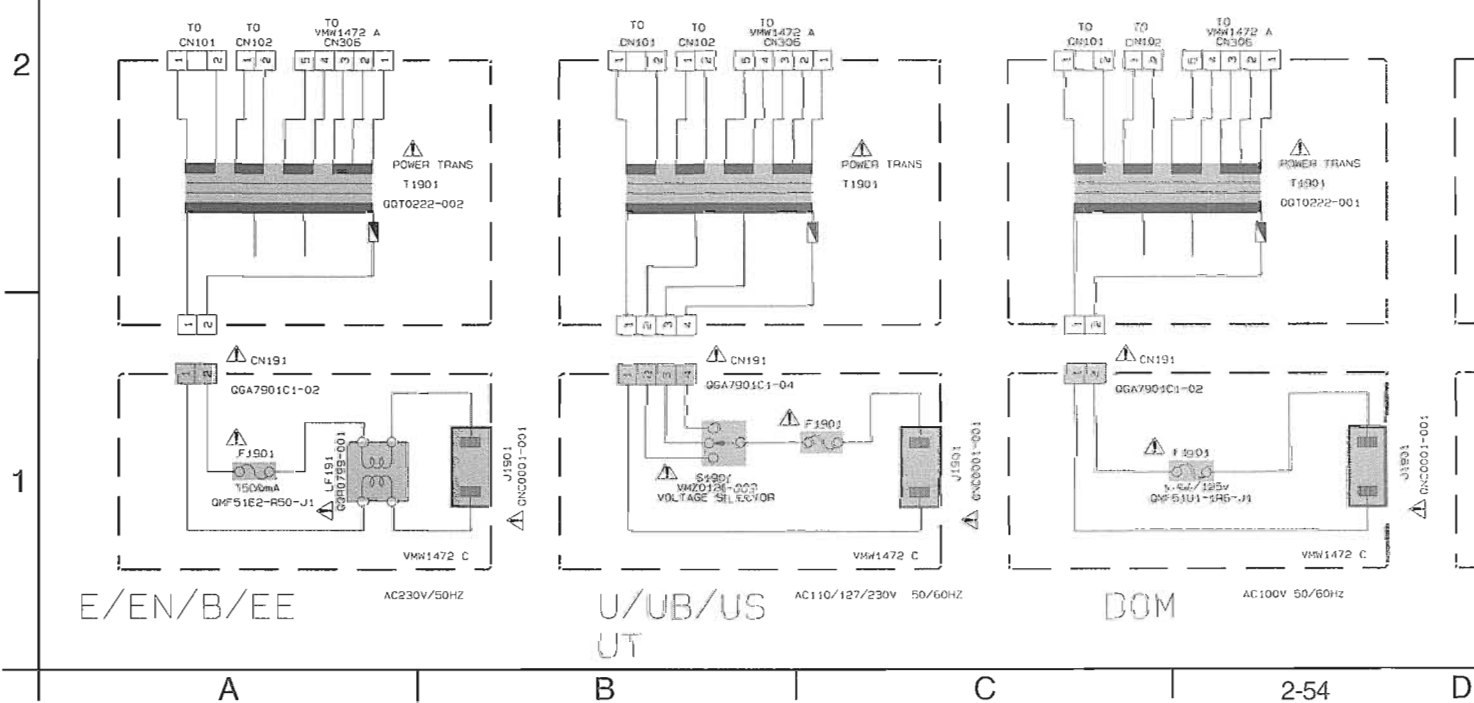
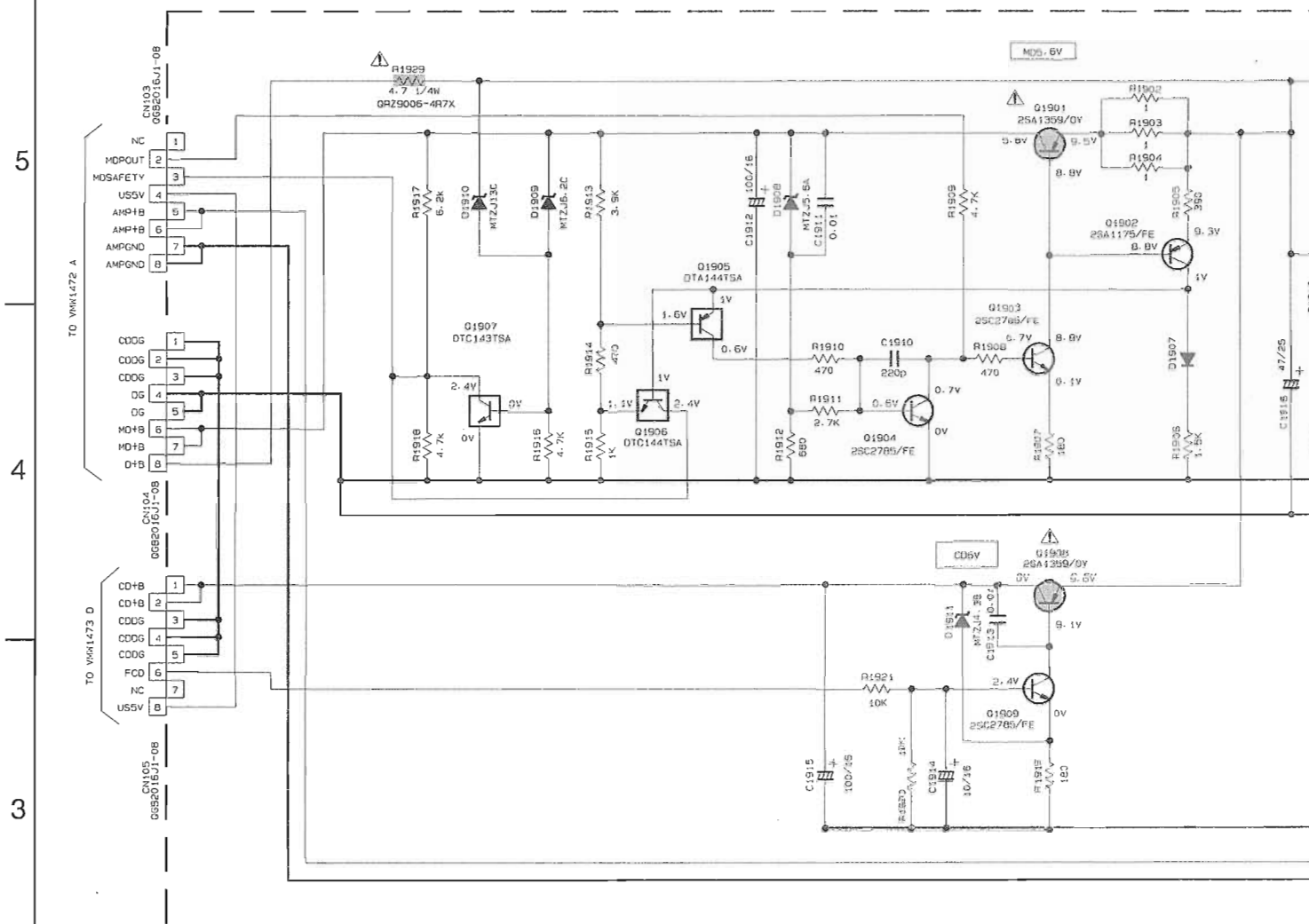
0.1-1000 P.F.

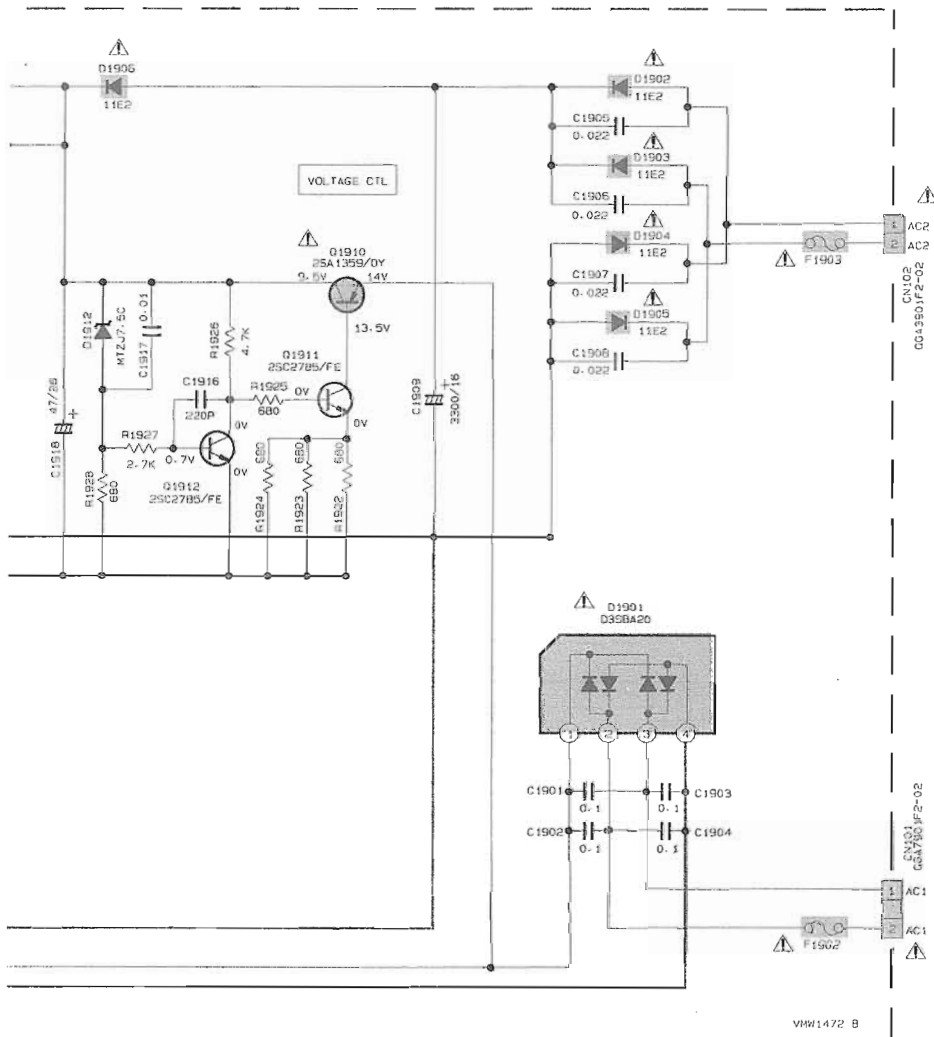


0.01-1000 H



■ Power transformer Section





	E/EN/B/EE U/LB/US/UT	DBF	J
F1903	QMF51C2-2R0-J1	QMF51U1-2R0-J1	QMF51U1-2R0-J1
F1902	QMF51C2-6R3-J1	QMF51U1-6R0-J1	QMF51U1-6R3-J1

NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONTINUOUS --- CO STOP MODE
- UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/8W 5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μ F/P.P.F.
ALL INDUCTANCE VALUES ARE IN μ H/STRAIGHT.
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (F)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS254



DTC143TSA

OPEN



DTC144TSA

OPEN

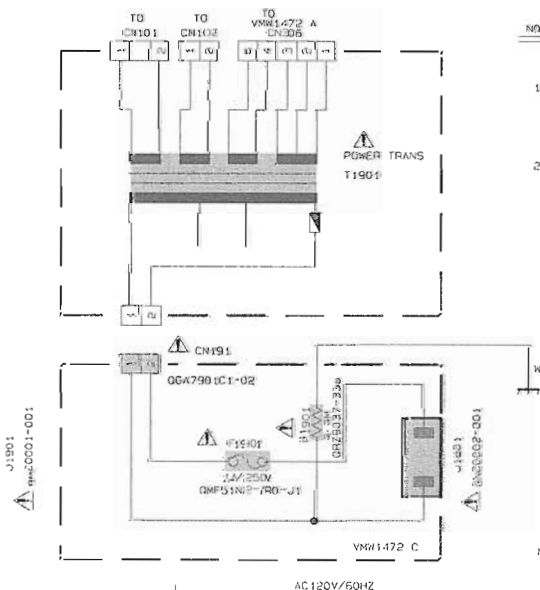


DTA144TSA

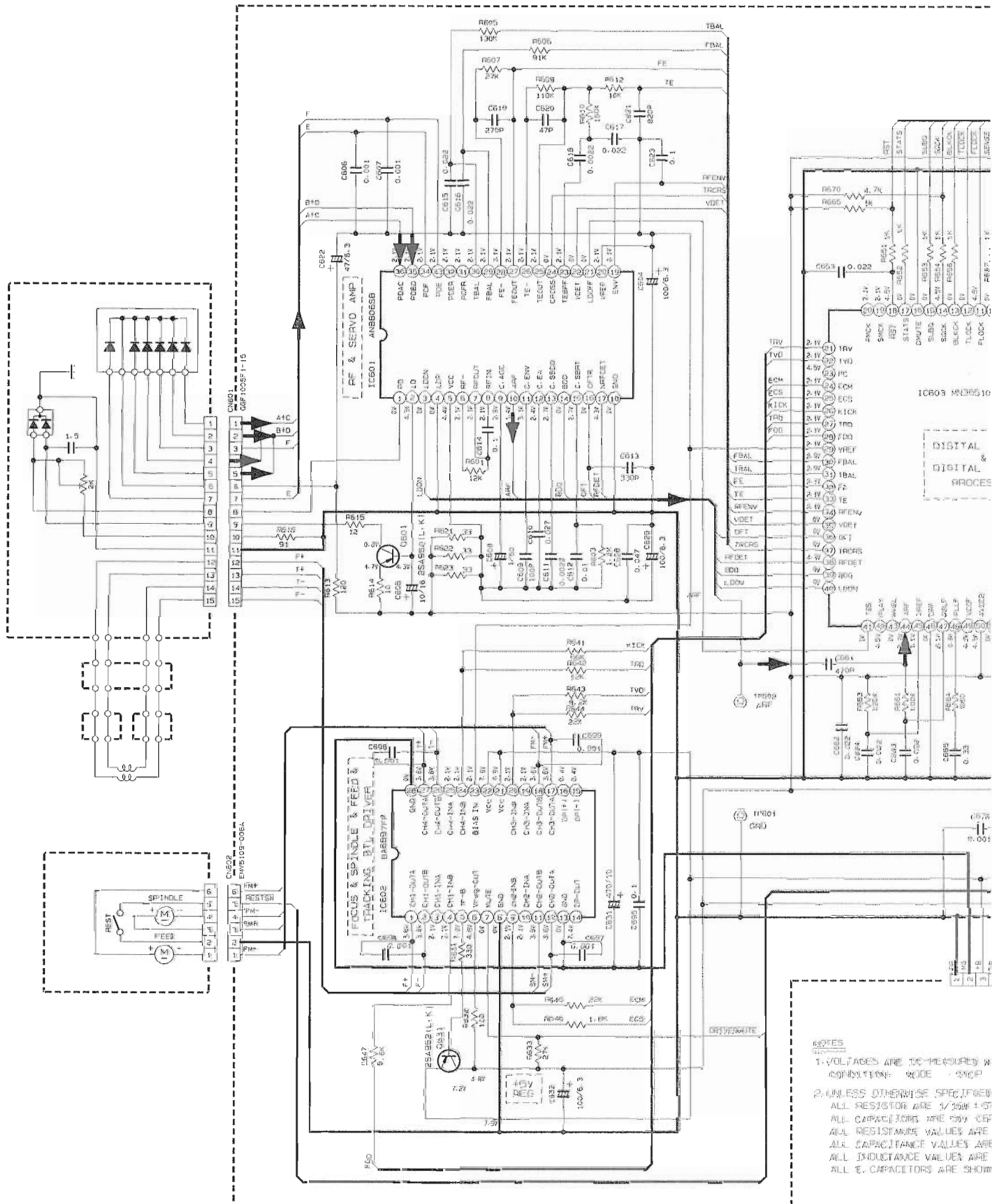
OPEN

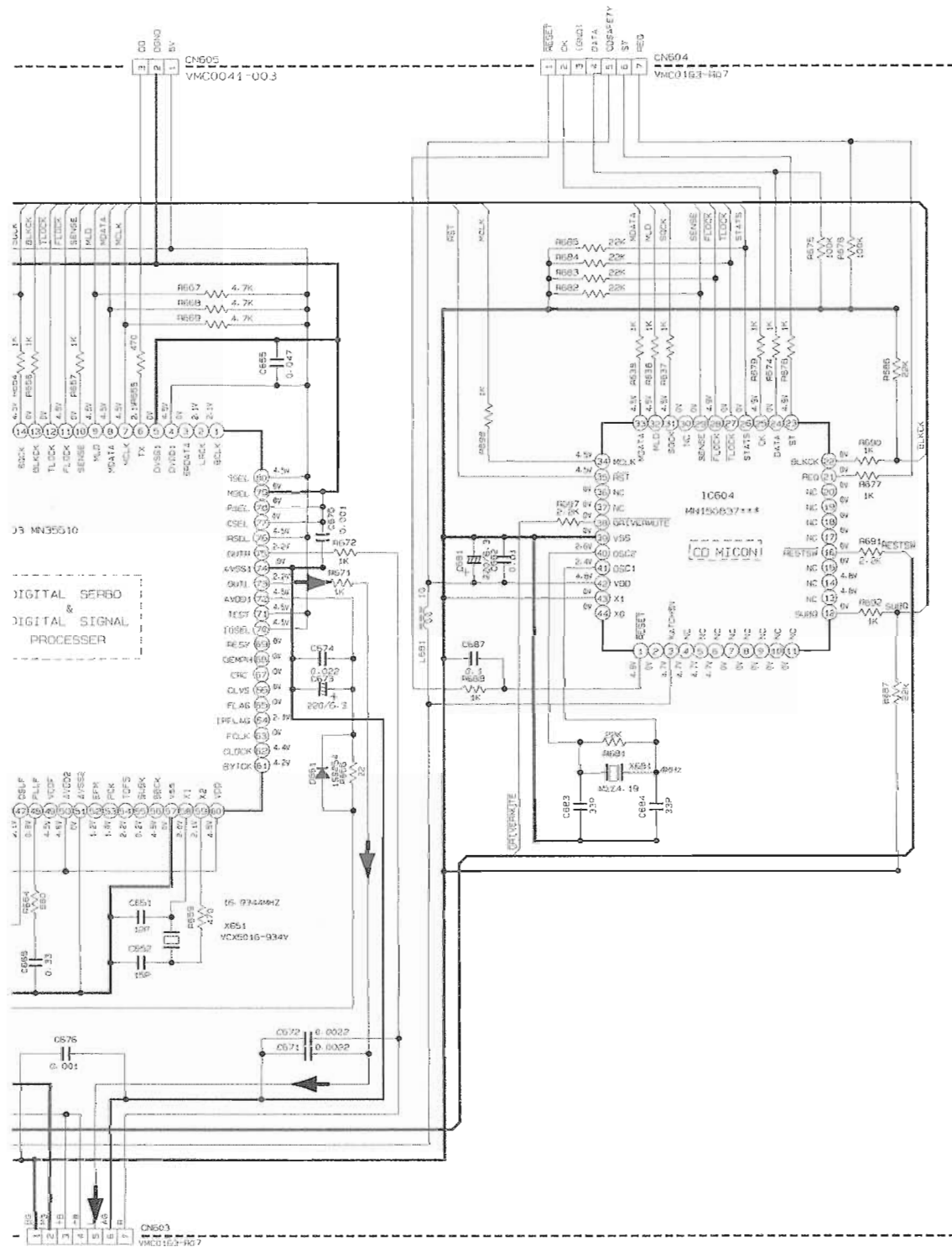
Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

MODEL UX-MD9000R
FS-MD9000
FS-MD10 UX-MD9000



CD Section



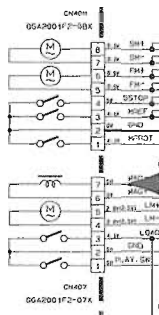


POWERED WITH A POSITIVE VOLT (REF:
+5V)

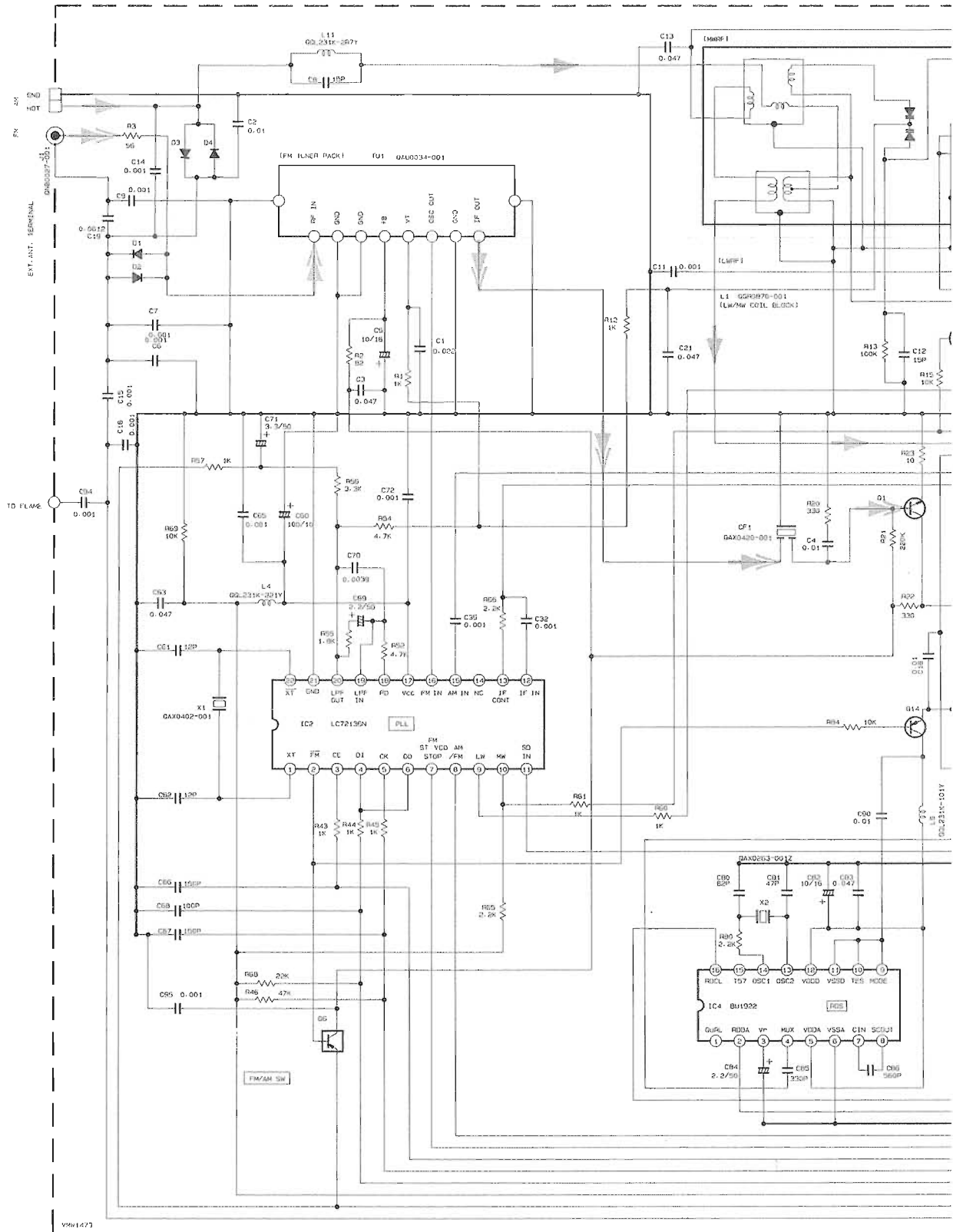
➡ CD SIGNAL

SPECIFIED.
1/10W ± 5% METAL GLAZE RESISTOR.
1E 50V ELECTRIC CAPACITOR OF 50V RATED VOLTAGE.
VALUES ARE IN OHM (Ω).
VALUES ARE IN PICO (P).
VALUES ARE IN MICRO (μ).
ARE SHOWN IN THE FORM OF CAPACITANCE (P) / RATED VOLTAGE (V).

MODEL
FS-MD10/MD9000
UX-MD9000 (R)



TUNER Section



CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
IC2	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0
	FM NO SIGNAL	2.4	0	0	5.1	5.0	5.1	3.7	3.7	2.0	3.8	5.1	0	0	0	0	2.6	5.1	1.0	1.0	3.7	0	2.7		
IC4	FM NO SIGNAL	2.0	2.5	2.5	2.5	5.0	0	2.5	2.5	0	0	0	5.0	2.4	2.4	2.5	2.5								
	FM NO SIGNAL	2.0	2.5	2.5	2.5	5.0	0	2.5	2.5	0	0	0	5.0	2.4	2.4	2.5	2.5								

Tr. NO.	01
PIN NO.	E C B
FM 87.5MHz NO SIGNAL	0 7.5 0
AM 520KHz NO SIGNAL	0 0 0
PIN NO.	G2
PIN NO.	E C B
AM 520KHz NO SIGNAL	2.0 2.0 0
AM 1440KHz NO SIGNAL	2.0 2.0 2

A

B

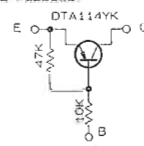
C

D

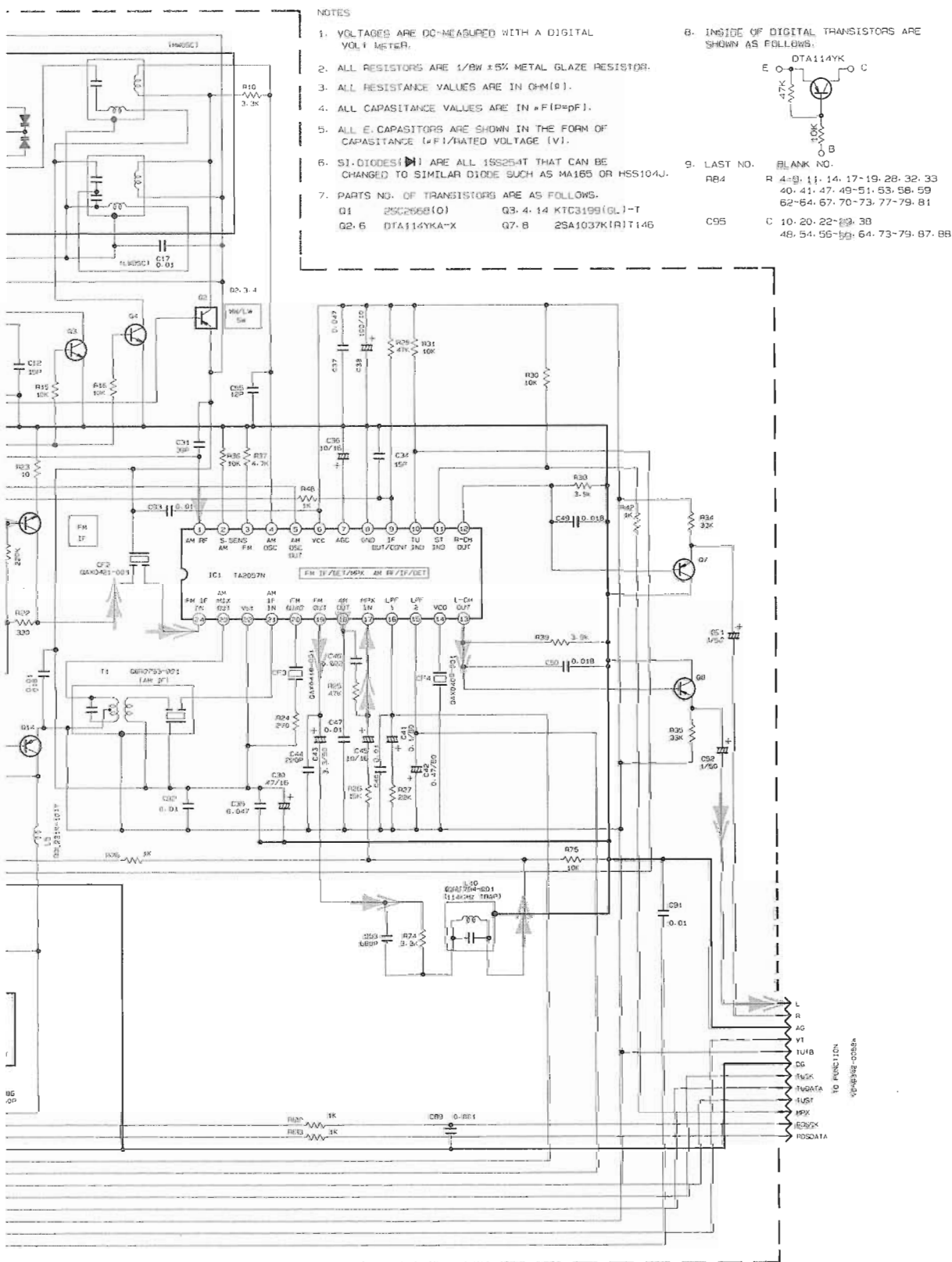
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLTMETER.
2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPACITANCE VALUES ARE IN *F(P=pF).
5. ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (±F)/RATED VOLTAGE (V).
6. SI DIODES(▷) ARE ALL 1SS25-AT THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 2SC2668(0) Q3, 4, 14 KTC3199(6L)-T
Q2, 6 DTA114YKA-X Q7, 8 2SA1037K(R)T146

8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS:



9. LAST NO. BLANK NO.
R 4-9, 11, 14, 17-19, 28, 32, 33
40, 41, 47, 49-51, 53, 58, 59
62-64, 67, 70-73, 77-79, 81
C 10, 20, 22-29, 30
48, 54, 56-59, 64, 73-79, 87, 88



Q1				Q2				Q3				Q4			
C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C
7.5	0.7	0.8	0.7	0.8	0.7	0.8	0.7	0.8	0.7	0.8	0.7	0.8	0.7	0.8	0.7
0	0	0.8	0	0.8	1.6	0	1.6	0	1.6	0	1.6	0	1.6	0	1.6

Q5				Q6				Q7				Q8			
C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C
0	0	0.1	0	0	0.1	0	0	0.1	0	0	0.1	0	0	0.1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

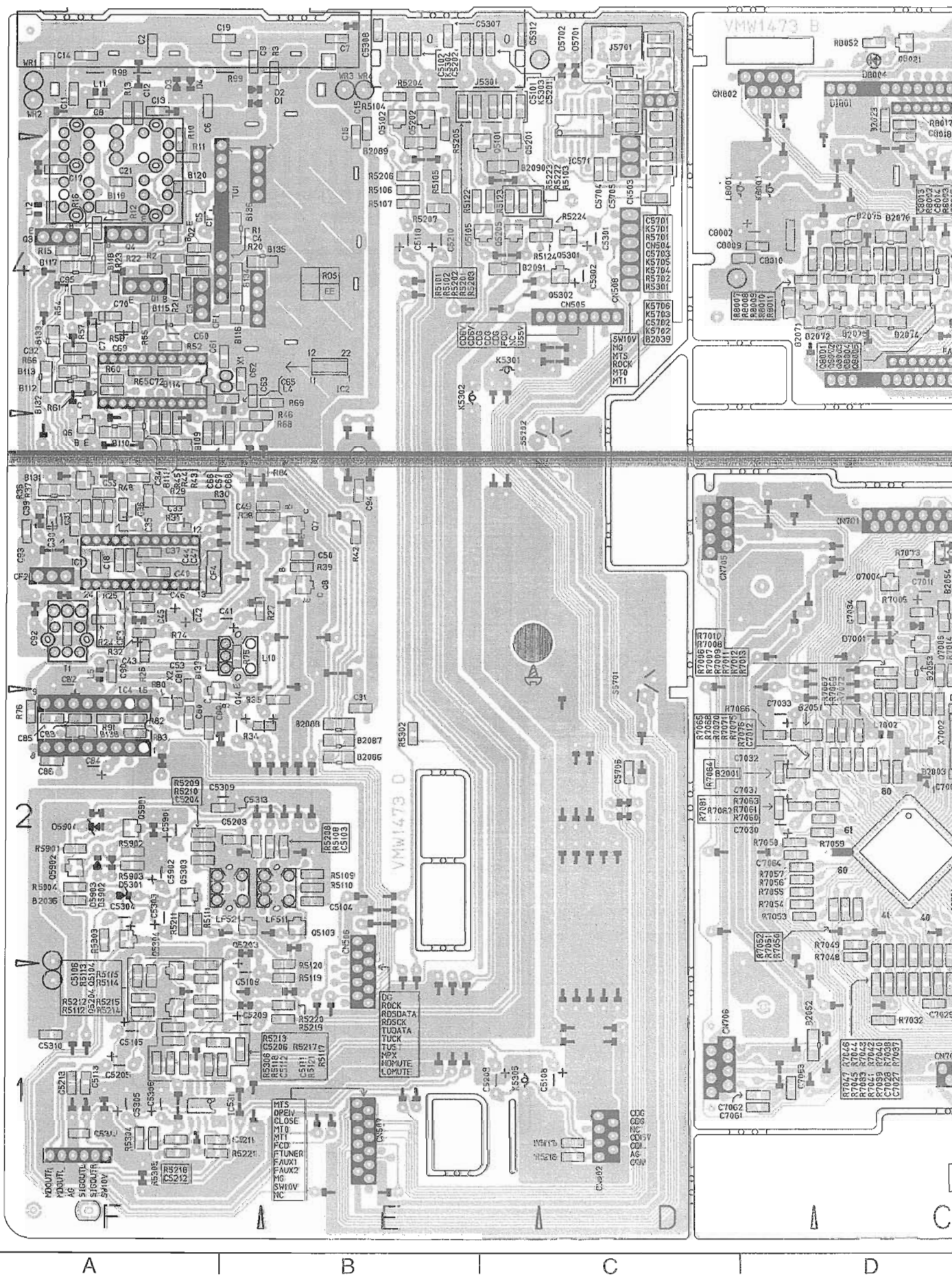
E/B/EN

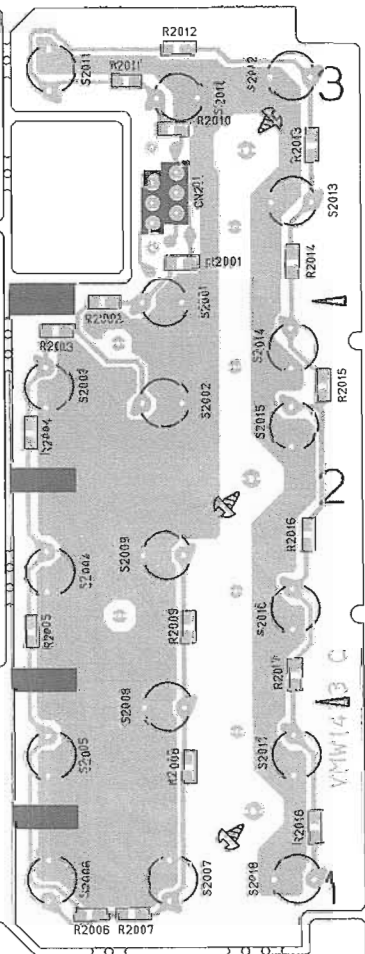
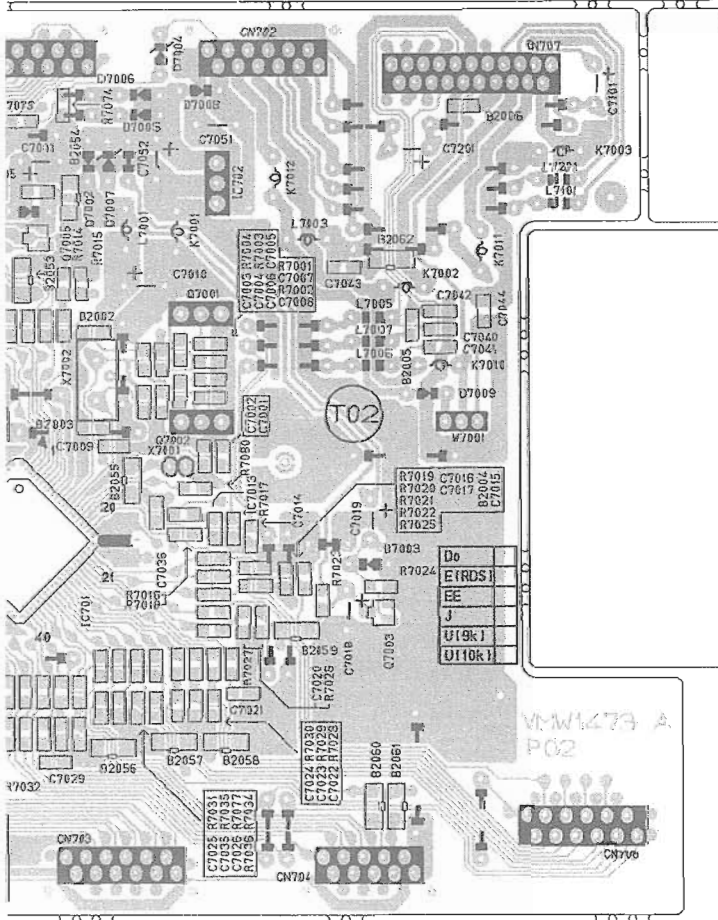
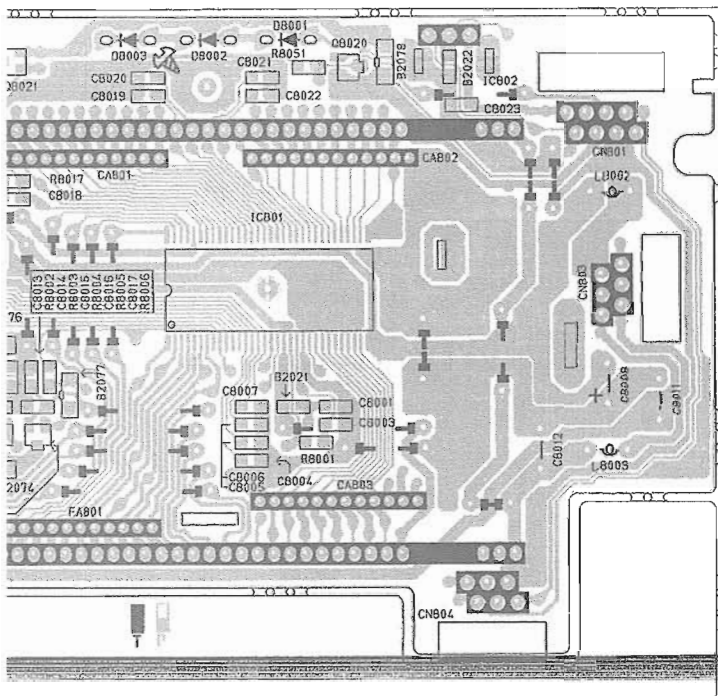
MODEL

UX-MD9000R

- AM TUNER SIGNAL
 FM/TUNER MAIN SIGNAL

■ System Control,Function & TUNER Board : Block No. 0 2





123 ボンド

C

A

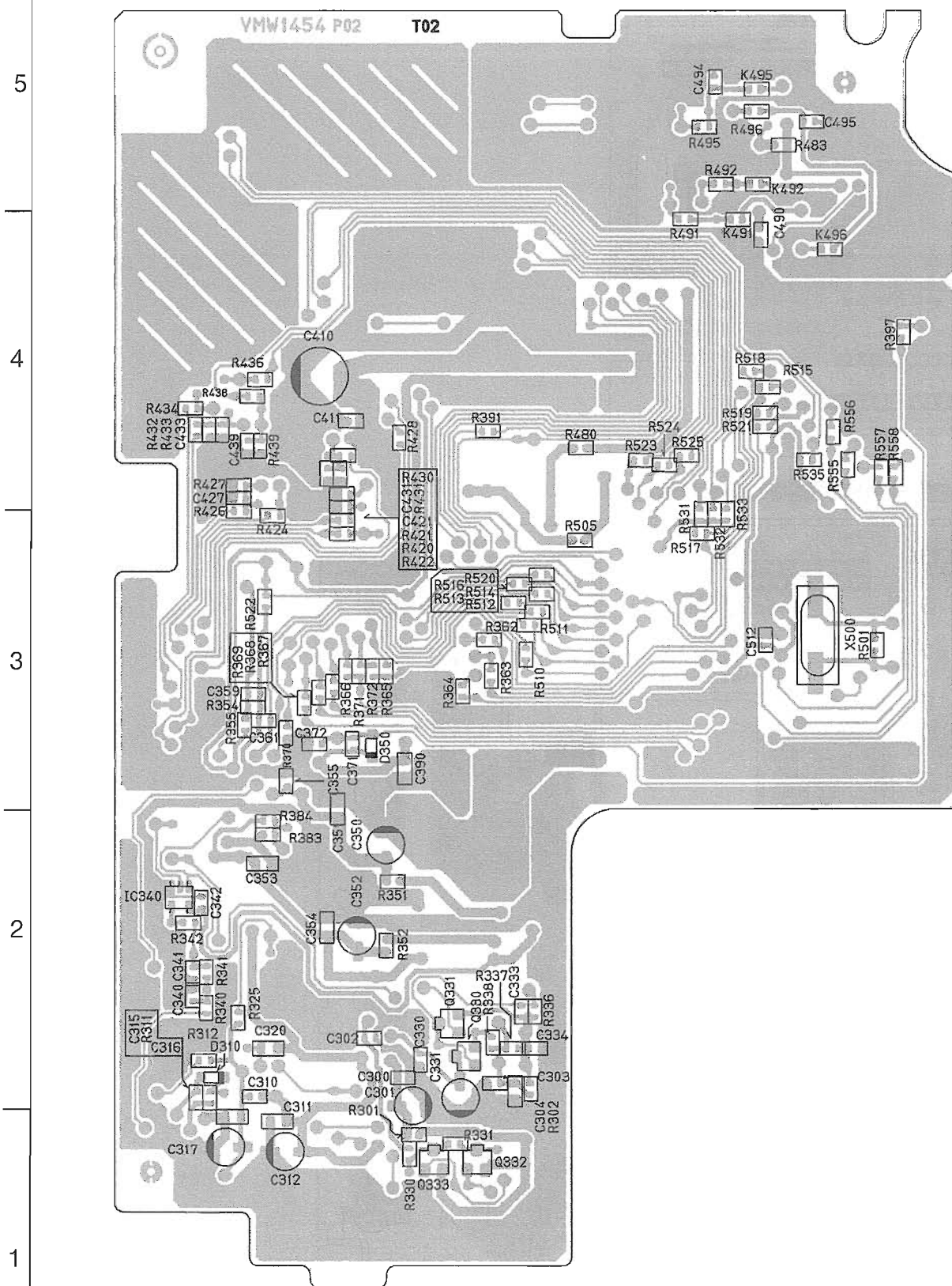
B

A

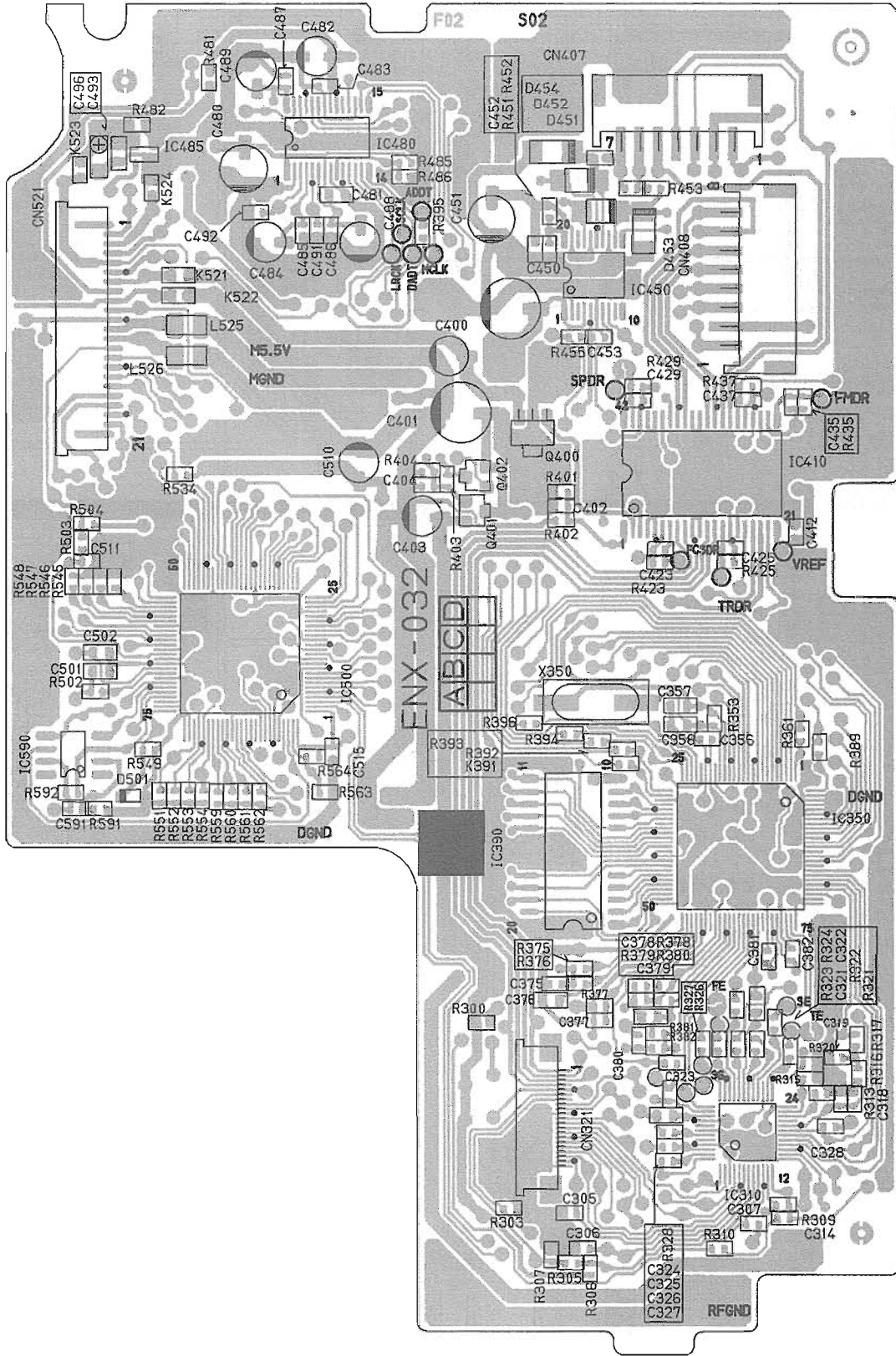
A

G

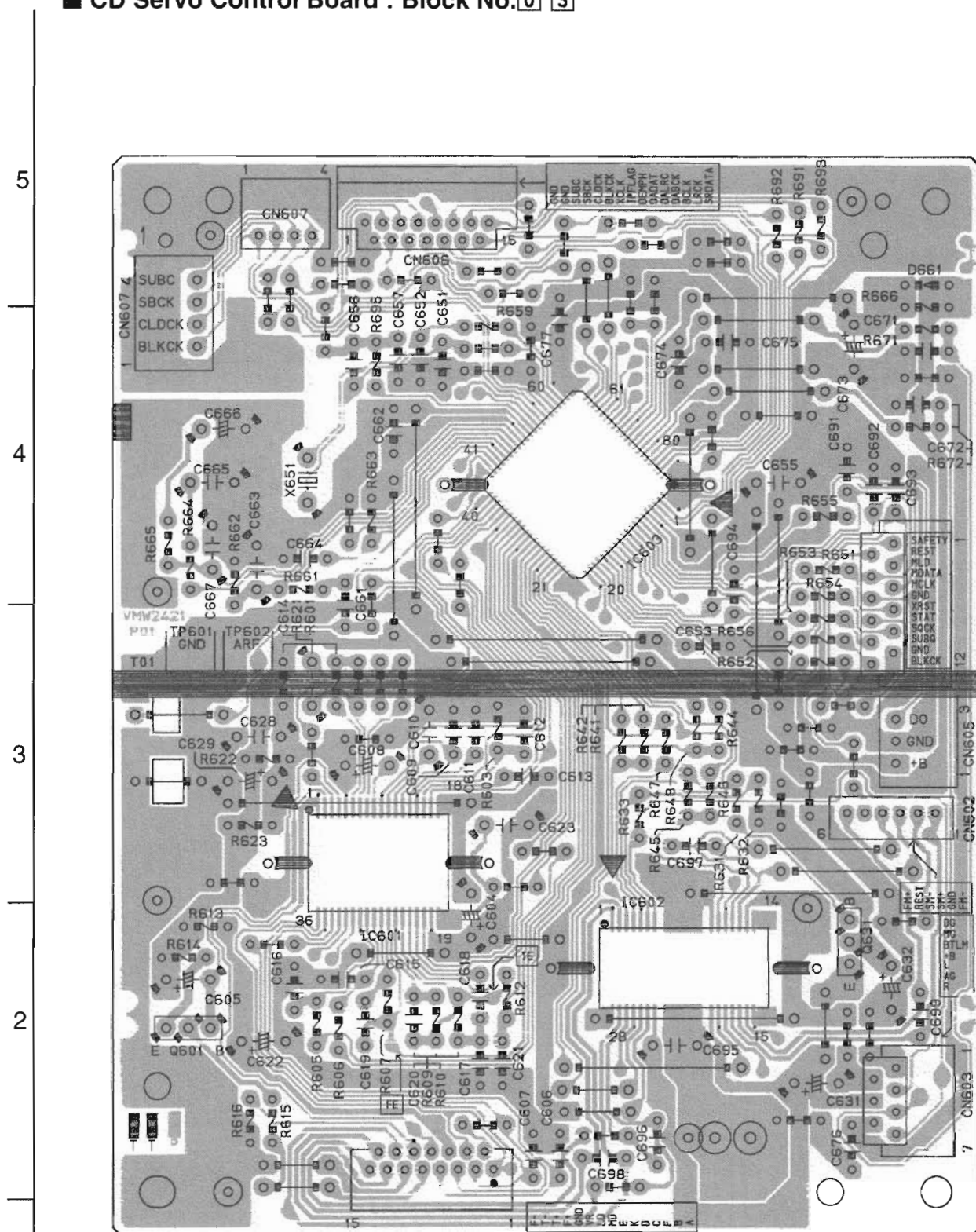
■ MD Servo Control Board (Reverse Side) : Block No. 0 4



■ MD Servo Control Board (Forward Side) : Block No. 0 4



■ CD Servo Control Board : Block No. 0 3



UX-MD9000R

-MEMO-

PARTS LIST

[UX-MD9000R]

* All printed circuit boards and its assemblies are not available as service parts.

Area Suffix

B ----- U.K.
E ----- Continental Europe
EN ----- Northern Europe

- Contents -

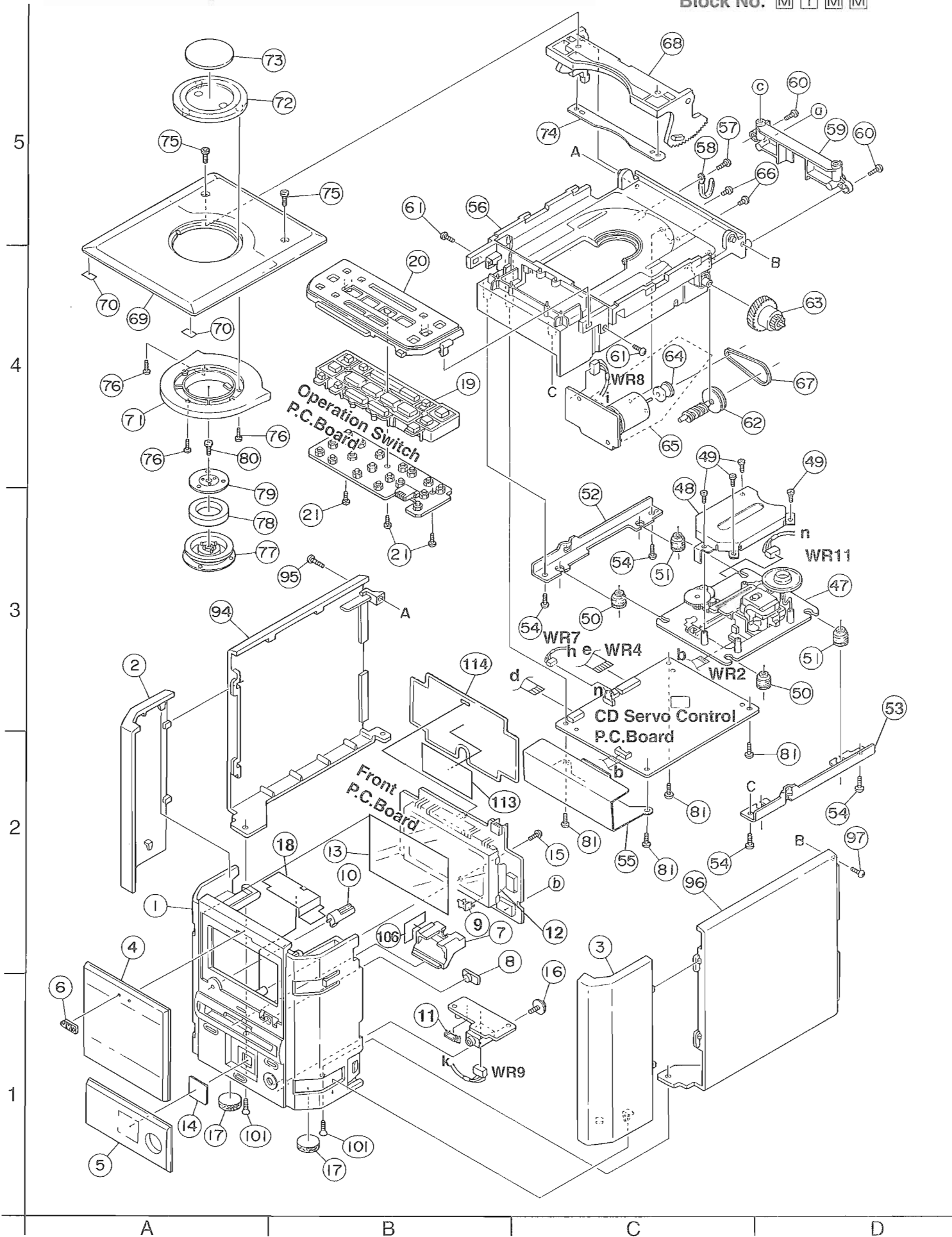
General Exploded View and Parts List -----	3-3
Exploded View of CD Mechanism and Parts List -----	3-5
Exploded View of MD Mechanism and Parts List -----	3-6
Electrical Parts List -----	3-9
Packing Materials and Accessories List -----	3-22

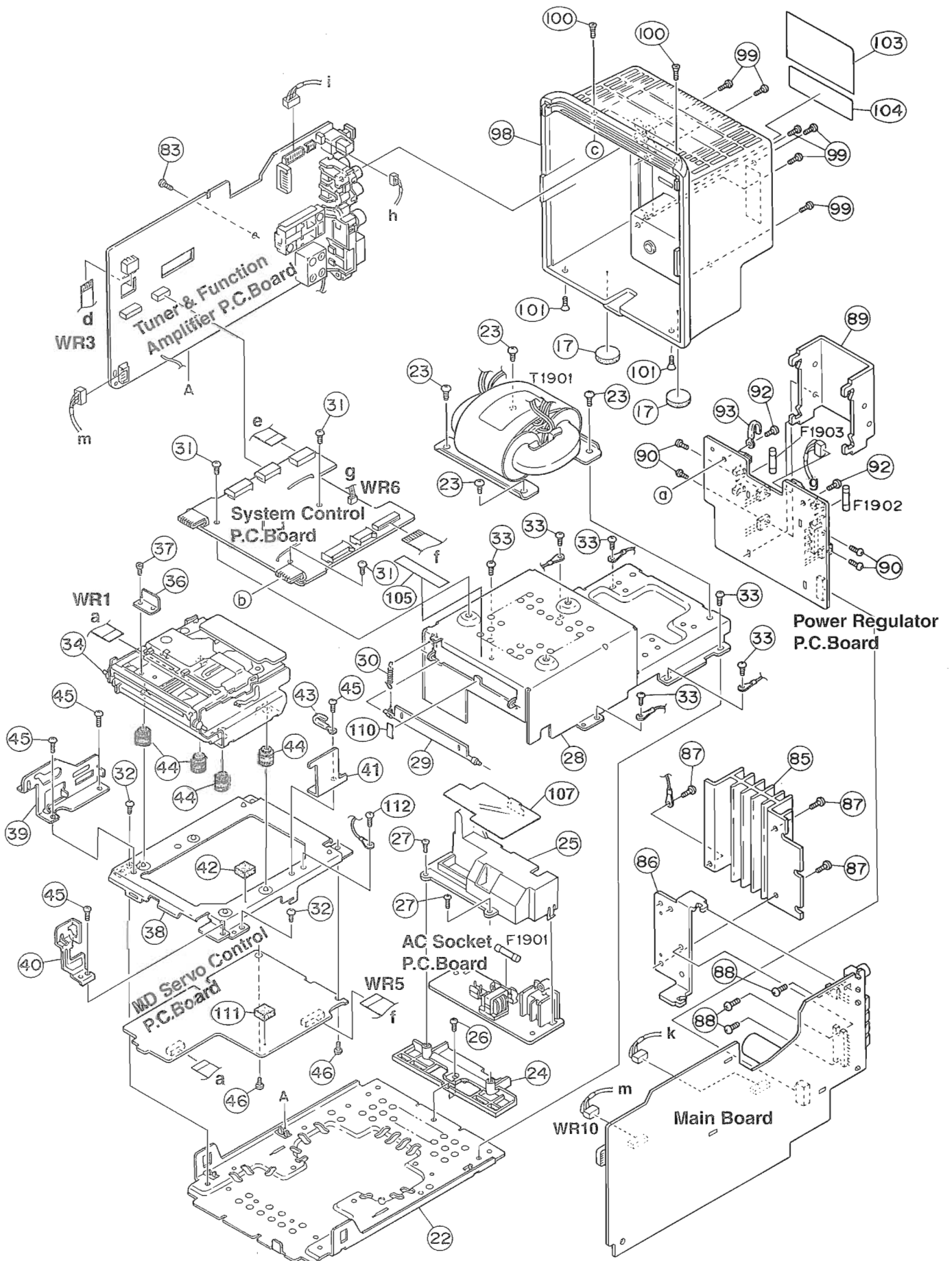
UX-MD9000R

-MEMO-

General Exploded View and Parts List

Block No. **M 1 M M**





■ Parts List

BLOCK NO. M1MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	LV10042-003A	FRONT PANEL		1		
	2	LV30182-001A	FITTING(L)		1		
	3	LV30183-001A	FITTING(R)		1		
	4	LV40192-003A	LENS(UPPER)		1		
	5	LV40193-003A	LENS(LOWER)		1		
	6	E406971-221	JVC MARK		1		
	7	LV30159-001A	MD LENS		1		
	8	E408131-001	REMOTE LENS		1		
	9	VYH8184-001	R.C IC HOLDER		1		
	10	LV40228-001A	LED LENS		1		
	11	LV40195-001A	LED HOLDER		1		
	12	LV30160-001A	FL HOLDER		1		
	13	LV40220-003A	FILTER		1		
	14	LV40197-001A	MD MARK LENS		1		
	15	SBSF3010Z	SCREW	PWB+F.PANEL	1		
	16	E65923-003	TAPPING SCREW	HP JACK+F.PANEL	1		
	17	VJF4003-001	FOOT		4		
	18	LV40545-001A	BLIND		1		
	19	LV30161-002A	BUTTON		1		
	20	LV30162-003A	TOP PANEL		1		
	21	SBSF2608Z	T.SCREW	SW PWB + T.PANE	3		
	22	LV10036-002A	BOTTOM CHASSIS		1		
	23	SBST4006Z	SCREW	TRANS+S.CASE	4		
	24	LV30164-001A	PWB HOLDER		1		
	25	LV30165-001A	JACK HOLDER		1		
	26	SBST3006Z	TH TAP SCREW	BTM.+PWB.HOL	1		
	27	SBSF3008Z	SCREW		2		
	28	LV10043-001A	SHIELD CASE		1		
	29	LV30166-001A	SHUTTER		1		
	30	LV40644-002A	SPRING		1		
	31	SBST3006Z	TH TAP SCREW	S.CASE+MICOM PW	3		
	32	SBST3004Z	SCREW	M.CHAS+BTM.CHAS	2		
	33	SBST3004Z	SCREW	S.CASE+BTM.CHAS	6		
	34	-----	MD LOADING UNIT		1		
	36	LV40544-001A	STOPPER		1		
	37	SPST2003Z	SCREW	FOR STOPPER	1		
	38	LV20075-001A	MECHA CHASSIS		1		
	39	LV30167-001A	MECHA BKT(L)		1		
	40	LV30168-001A	MECHA BKT(R)		1		
	41	LV40534-001A	MECHA BKT(B)		1		
	42	VYSR105-004	SPACER		1		
	43	VKZ4001-007	WIRE CLAMP		1		
	44	E75609-002	INSULATOR		4		
	45	SBST3004Z	SCREW	M.CHASSIS+M.BKT	4		
	46	SBST3004Z	SCREW	M.CHASSIS+MD PW	2		
	47	-----	CD MECHA UNIT		1		
	48	VJD5410-005	PICK COVER		1		
	49	SDSF2006M	SCREW	FOR PICK COVER	4		
	50	E75609-001	INSULATOR		2		
	51	E75609-002	INSULATOR		2		
	52	VYH8089-001SC	CD MECHA HOLDER		1		
	53	VYH8089-002SC	CD MECHA HOLDER		1		
	54	SBSF3010Z	SCREW	CD CASE+CD M.HO	4		
	55	VMA4692-002SC	SHIELD		1		
	56	VJD1210-008	CD CASE		1		
	57	SBSF3010Z	SCREW		1		
	58	VKZ4001-110	WIRE HOLDER		1		
	59	LV30163-001A	REAR HOLDER	CD.CASE+REAR	1		
	60	SBSF3010Z	SCREW	CD CASE+R.HOL.	2		
	61	SBSF3010Z	SCREW	CD CASE+F.PANEL	2		

BLOCK NO. 01

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	62	VYH8090-001SC	GEAR 1		1		
	63	VYH8091-002SC	GEAR 2		1		
	64	VYH7699-001	PULLEY		1		
	65	MXN13FB12F-SA8	DC MOTOR ASS'Y		1		
	66	SPSP3004Z	SCREW		2		
	67	VKB3000-170	BELT		1		
	68	VJE3014-001SC	CD DOOR		1		
	69	LV30085-003A	CD DOOR LENS	ACRYLITE T=4	1		
	70	VYSS1R1-108	SPACER		2		
	71	LV30080-011A	DOOR PLATE		1		
	72	LV30086-003A	ORNAMENT		1		
	73	LV40104-003A	LENS (CD)		1		
	74	VJD5490-002	PLATE		1		
	75	VKZ4765-001	S.BOLT(DIN)		2		
	76	SDSF2006M	SCREW	D.PLATE+ORNAMEN	3		
	77	VYH3726-002SS	CLAMPER		1		
	78	VYH7313-003	MAGNET		1		
	79	VYH7677-201	YOKE		1		
	80	SDSF2606Z	SCREW		1		
	81	SBSF3010Z	SCREW	CD CASE+CD PWB	4		
	83	SBSF3010Z	SCREW	PWB+CD CASE	1		
	85	LV40334-001A	HEAT SINK(1)		1		
	86	LV40336-001A	IC HOLDER		1		
	87	SBSF3010Z	SCREW		3		
	88	SBSF3010Z	SCREW	IC HOL+IC	3		
	89	LV40335-001A	HEAT SINK(2)		1		
	90	SBSF3010Z	SCREW	H.SINK(2)+IC	4		
	92	SBSF3010Z	SCREW	R.HOL+REG PWB	2		
	93	VKZ4001-110	WIRE HOLDER		1		
	94	LV20044-001A	SIDE PANEL(L)		1		
	95	SBSF3010Z	SCREW	S.P.(L)+CD CASE	1		
	96	LV20045-001A	SIDE PANEL(R)		1		
	97	SBSF3010Z	SCREW	S.P.(R)+CD CASE	1		
	98	LV10044-002A	REAR COVER		1		
	99	SBSF3008M	SCREW	REAR	6		
	100	SSSF3008M	SCREW	REAR+R.HOLDER	2		
	101	SSST3010Z	SCREW		4		
	103	LV30388-001A	NAME PLATE		1		
	104	VND4118-004	CAUTION LABEL		1		
	105	LV40231-001A	CAUTION LABEL		1		
	106	LV40610-001A	LENS SHEET		1		
	107	LV40480-001A	BARRIER		1		
	110	VYSA1R4-116	SPACER		1		
	111	VYSR103-038	SPACER		1		
	112	SBST3004Z	SCREW		1		
	113	LV40461-001A	SHEELD		1		
	114	LV40464-001A	SHEELD		1		
△	F1901	QMF51E2-R50SBS	FUSE		1		
△	F1902	QMF51E2-6R3J1	FUSE		1		
△	F1903	QMF51E2-2R0	FUSE		1		
△	T1901	QQT0222-002	POWER TRANS		1		
	WR 1	EMW40008-001	FPC CABLE		1		
	WR 2	QUQ110-1507AJ	FFC WIRE	CD - PICK	1		
	WR 3	QUQ412-0707CJ	FFC WIRE	CD - FUNCTION	1		
	WR 4	QUQ412-1206DJ	FFC WIRE	CD - MICOM	1		
	WR 5	QUQ110-2109AJ	FFC WIRE	MD - MICOM	1		
	WR 6	VDM9342-001B-A	WIRE KIT		1		
	WR 7	VDM9342-001C-A	WIRE KIT		1		
	WR 8	JC-P-6-18-EH-06	SC-PH WIRE		1		
	WR 9	AT-Y-6-32-PH-06	SA-PH WIRE		1		
	WR 10	VDM9342-001A-A	WIRE & TUBE		1		
	WR 11	SA-Y-6-06-PH-06	CONNECTOR	TO MOTOR	1		

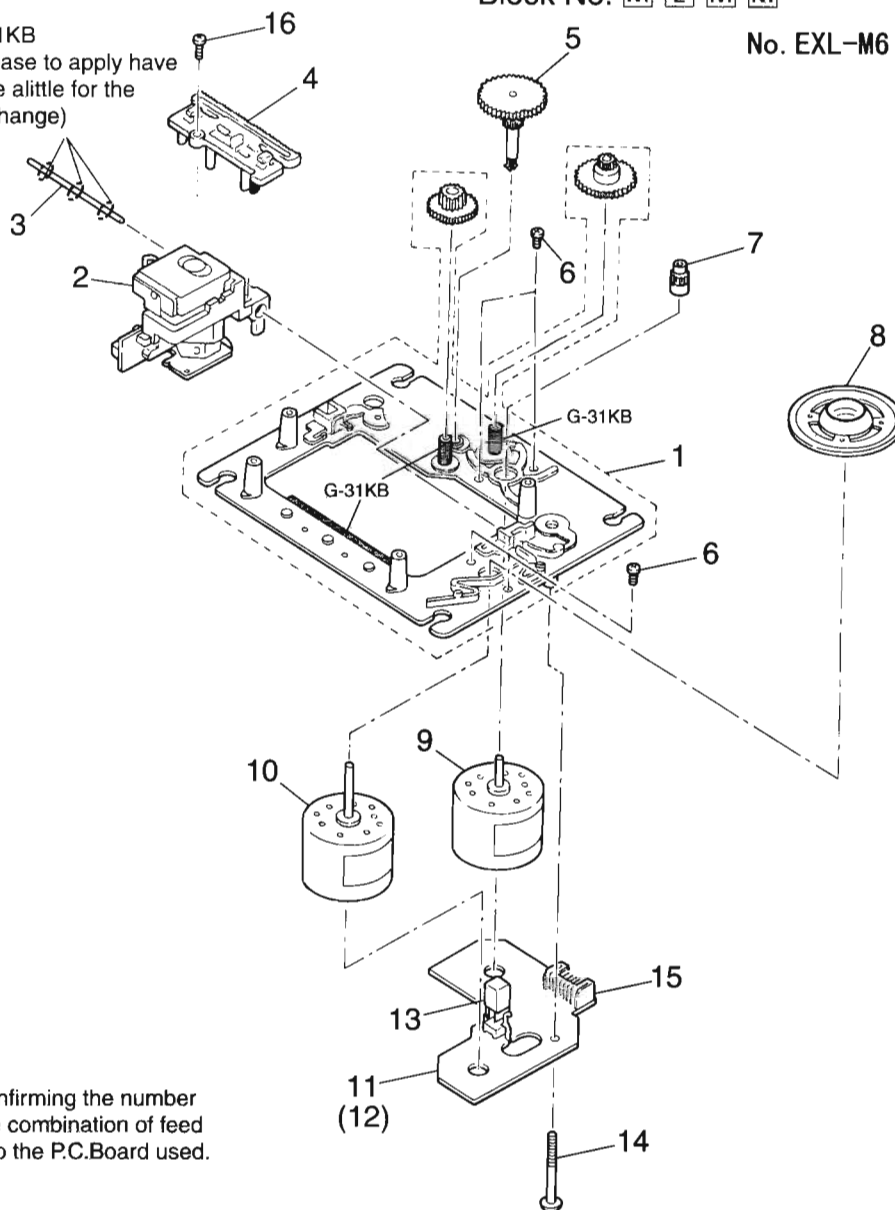
CD Mechanism Ass'y and Parts List

■Grease Point

G-31KB
(Grease to apply have
to be alittle for the
exchange)

Block No. **M 2 M M**

No. EXL-M6



NOTE

Please order motor after confirming the number of the P.C.Board because the combination of feed motor is different according to the P.C.Board used.

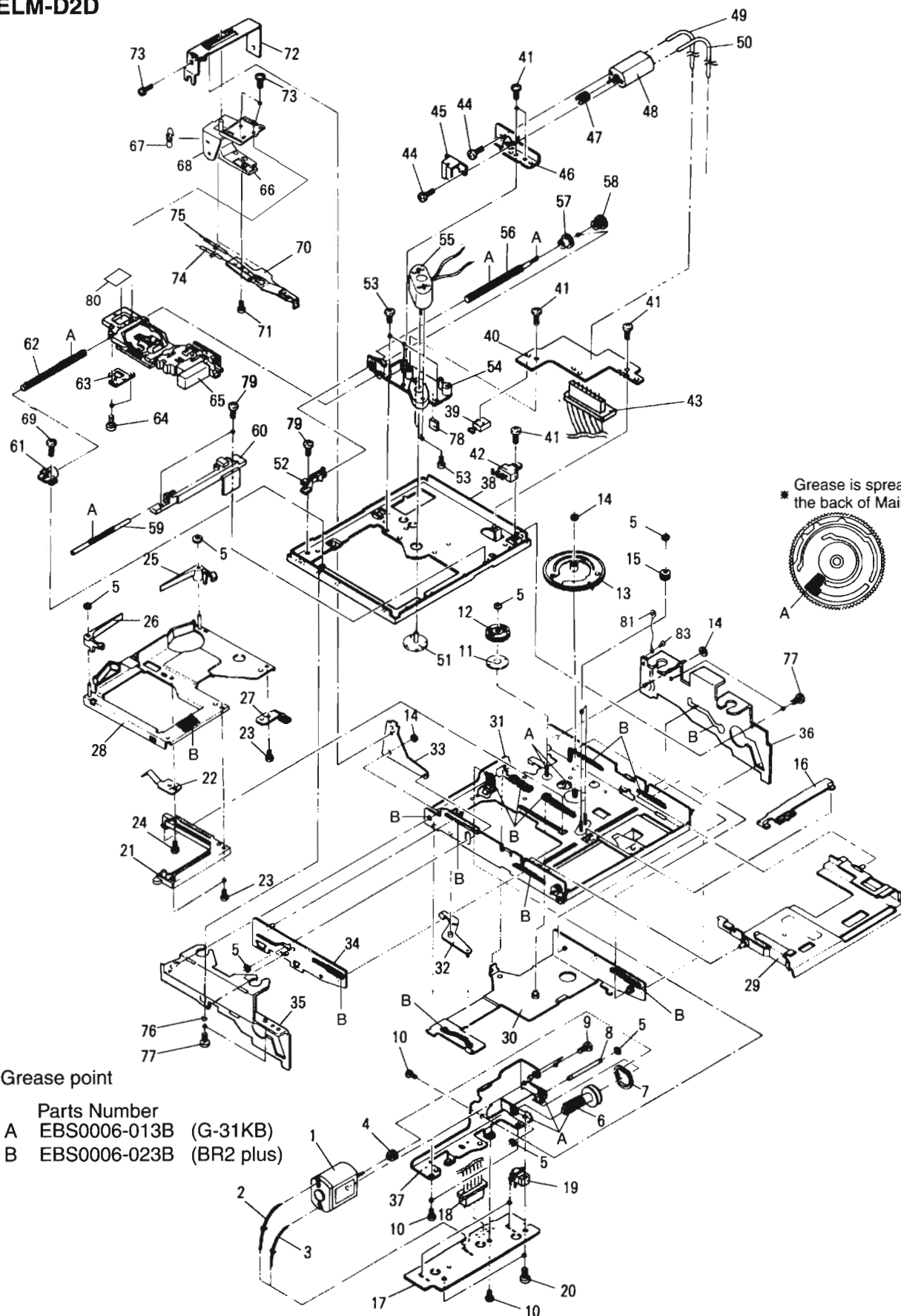
■CD Mechanism Assembly Parts List

Item	Parts Number	Parts Name	Q'ty	Description	Area
1	EPB-002PK	MECHA. BASE ASSY	1		
2	OPT1MA-150S	OPTICAL PICK UP	1		
3	E407782-001	CD SHAFT	1		
4	E307746-001	CD RACK	1		
5	EPB-003A	MECHA GEAR	1		
6	SDSP2003N	SCREW	4		
7	E406750-001	PINION GEAR	1		
8	EPB309173A	TURN TABLE	1		
9	E406784-001	FEED MOTOR	1	Use the No.11 P.C.Board	
	MDN-4RA3ETA-1	FEED MOTOR	1	Use the No.12 P.C.Board	
10	E406783-001	SPINDLE MOTOR	1		
11	EMW10190-001 (S)	P. C. BOARD	1		
12	EMW10190-221 (S)	P. C. BOARD	1		
13	ESB1100-005	LEAF SWITCH	1		
14	E75832-001	SCREW	1		
15	EMV5109-006B	CONN. TERMINAL	1		
16	SDSF2006Z	SCREW	1		

MD Mechanism Ass'y and Parts List

Block No. **M 3 M M**

ELM-D2D



■ Parts List

BLOCK NO. M3MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	E407851-001	MOTOR		1		
	2	QWE310-06BB	WIRE ASSY		1		
	3	QWE319-06BB	WIRE ASSY		1		
	4	E407493-001	PULLEY		1		
	5	WDM123025	SLIT WASHER		8		
	6	E407497-001	WORM GEAR		1		
	7	E407504-001	BELT		1		
	8	E407492-001	W.SHAFT		1		
	9	SPSK2020N	SCREW		2		
	10	E407595-001	SPECIAL SCREW		4		
	11	E407498-001	GEAR(B)		1		
	12	E407500-001	WORM WHEEL		1		
	13	E308475-001	MAIN GEAR		1		
	14	WDM165025	SLIT WASHER		3		
	15	E407499-001	GEAR(A)		2		
	16	E308490-002	RACK		1		
	17	EMW30020-101	CIR BOARD		1		
	18	EWS267-A913	SKT WIRE ASSY		1		
	19	QSP2003-E01A	PUSH SWITCH		2		
	20	E407596-002	SPECIAL SCREW		2		
	21	E308482-002	C.RACK		1		
	22	E407502-001	SP.PLATE(E)		1		
	23	SPSK1720M	MINI SCREW		3		
	24	SPSH1730Z	SCREW		1		
	25	E408257-001	HOOK(L)		1		
	26	E408258-001	HOOK(R)		1		
	27	E407496-001	GUIDE PLATE		1		
	28	E308484-004	C.D.B.SUB ASSY		1		
	29	E308488-005	C.G.B SUB ASSY		1		
	30	E308485-003	D.PLATE ASSY		1		
	31	E207828-005	D.BASE SUB ASSY		1		
	32	E407589-001	SW.LEVER(C)ASSY		1		
	33	E407503-001	C.HEAD(A)ASSY		1		
	34	E308486-002	SLIDE CAM ASSY		1		
	35	E309058-002	BASE(R)ASSY		1		
	36	LV30370-001A	BASE(L)		1		
	37	E308473-001	SWITCH BRACKET		1		
	38	E208225-002	CHASSIS BASE		1		
	39	QSW0104-001	PUSH SWITCH		1		
	40	EMW30022-101	P.C.B.		1		
	41	SPSN2035N	SCREW		5		
	42	QSW0738-001	PUSH SWITCH		1		
	43	EWS268-F924	SKT.WIRE ASSY		1		
	44	SPSK1416M	MINI SCREW		2		
	45	E408253-001	THRUST.SPRING		1		
	46	E408252-001	MOTOR BKT		1		
	47	VKS5392-001	F.M.GEAR		1		
	48	FF-N30VA-09210	FEED MOTOR		1		
	49	QWE419-05BB	WIRE ASSY		1		
	50	QWE410-05BB	WIRE ASSY		1		
	51	E408429-003SA	TURN TABLE ASSY		1		
	52	E408254-001	LEAD SCREW HOLD		1		
	53	SPSK1725Z	MINI SCREW		5		
	54	E309049-001	GEAR BASE SA		1		

UX-MD9000R

BLOCK NO. M3MM

△ REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
55	FF-110PH-08280S	SP.MOTOR		1		
56	E408256-003	LEAD SCREW		1		
57	VKR4726-001	GEAR		1		
58	VKR4725-001	CONNECT GEAR		2		
59	E408263-001	GUIDE SHAFT (B)		1		
60	E309050-002	GUIDE SHAFT HOL		1		
61	E408265-001	SHAFT HOLDER		1		
62	E408262-001	GUIDE SHAFT (A)		1		
63	E408255-003	RACK SPRING		1		
64	SPSK1414Z	SCREW		2		
65	KMS-260A	MD PICK UNIT		1		
66	LV20097-001A	HEAD BASE		1		
67	E409158-004	SPRING		1		
68	LV30368-001A	H.JOINT		1		
69	QYSPSPU1722Z	SCREW		1		
70	QAH0021-001	MD HEAD		1		
71	SPSJ1725N	SCREW		1		
72	E407489-002	C.HEAD (B)		1		
73	SPSK1720M	MINI SCREW		3		
74	EWE300-08BB	WIRE ASSY		1		
75	EWE309-08BB	WIRE ASSY		1		
76	E407873-002	SPRING		1		
77	SPSH1730Z	SCREW		4		
78	E406760-001PU	MAGNET		1		
79	SPSH1725M	MINI SCREW		3		
80	LE30001-008A	SPACER		1		
81	EWPZ01-011	TERMINAL WIRE		1		
83	E407595-001	SPECIAL SCREW		1		

Main Board

BLOCK NO. 0111111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN101	QGA7901F2-02	CONNECTOR		
CN102	VMZ0076-002	CONNECTOR		
CN103	VMC0289-S08	CONN.TERMINAL		
CN104	VMC0289-S08	CONN.TERMINAL		
CN105	VMC0289-S08	CONN.TERMINAL		
CN191	VMZ0049-B02	CONNECTOR		
CN301	QGB1214J1-14S	CONNECTOR		
CN302	QGB1214J1-12S	CONNECTOR		
CN303	VMC0075-006	6P PLUG ASSY		
CN304	QGB2016K1-08	CONNECTOR		
CN305	QGB2016K1-08	CONNECTOR		
CN306	QGA2501C3-052	CONNECTOR		
CN308	QGB1216J1-06S	CONNECTOR		
C1901	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C1902	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C1903	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C1904	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C1905	QCF21HP-223A	C.CAPACITOR	.022MF +80:-20%	
C1906	QCF21HP-223A	C.CAPACITOR	.022MF +80:-20%	
C1907	QCF21HP-223A	C.CAPACITOR	.022MF +80:-20%	
C1908	QCF21HP-223A	C.CAPACITOR	.022MF +80:-20%	
C1909	QFTB1CM-338EE	E.CAPACITOR	3300MF 20% 16V	
C1910	QGBB1HK-231Y	C.CAPACITOR	220PF 10% 50V	
C1911	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C1912	QET41CM-107	E.CAPACITOR	100MF 20% 16V	
C1913	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C1914	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
C1915	QET41CM-107	E.CAPACITOR	100MF 20% 16V	
C1916	QGBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
C1917	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C1918	QETC1EM-476ZM	E.CAPACITOR	47MF 20% 25V	
C3101	EFZ0101-392S	P.P.CAPACITOR	3900PF	
C3102	QTE1V06-106Z	E.CAPACITOR		
C3104	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
C3105	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
C3106	QFN81HJ-562	M.CAPACITOR	5600PF 5% 50V	
C3107	QTE1C06-476Z	E.CAPACITOR		
C3108	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
C3109	QFN41HJ-473	M.CAPACITOR	.047MF 5% 50V	
C3110	QFN41HJ-473	M.CAPACITOR	.047MF 5% 50V	
C3111	QTE1C06-226Z	E.CAPACITOR		
C3112	QTE1V06-106Z	E.CAPACITOR		
C3113	QCC31EM-104ZV	C.CAPACITOR	.10MF 20% 25V	
C3114	QCC31EM-104ZV	C.CAPACITOR	.10MF 20% 25V	
C3115	NCT21CH-101AY	E.CAPACITOR	100PF +50:-10% 16V	
C3116	QEK61HM-475ZM	E.CAPACITOR	4.7MF 20% 50V	
C3117	NCT21CH-151AY	E.CAPACITOR	150PF +50:-10% 16V	
C3118	QEK61AM-227ZM	E.CAPACITOR	220MF 20% 10V	
C3119	QTE1C06-476Z	E.CAPACITOR		
C3120	QEK61HM-475ZM	E.CAPACITOR	4.7MF 20% 50V	
C3151	NCT21CH-101AY	E.CAPACITOR	100PF +50:-10% 16V	
C3152	NCT21CH-101AY	E.CAPACITOR	100PF +50:-10% 16V	
C3153	QGBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
C3154	QCXB1CM-332Y	C.CAPACITOR	3300PF 20% 16V	
C3155	NCT21CH-151AY	E.CAPACITOR	150PF +50:-10% 16V	

BLOCK NO. 0111111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C3181	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C3201	EFZ0101-392S	P.P.CAPACITOR	3900PF	
C3202	QTE1V06-106Z	E.CAPACITOR		
C3204	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
C3205	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
C3206	QFN81HJ-562	M.CAPACITOR	5600PF 5% 50V	
C3207	QTE1C06-476Z	E.CAPACITOR		
C3208	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
C3209	QFN41HJ-473	M.CAPACITOR	.047MF 5% 50V	
C3210	QFN41HJ-473	M.CAPACITOR	.047MF 5% 50V	
C3211	QTE1C06-226Z	E.CAPACITOR		
C3212	QTE1V06-106Z	E.CAPACITOR		
C3213	QCC31EM-104ZV	C.CAPACITOR	.10MF 20% 25V	
C3214	QCC31EM-104ZV	C.CAPACITOR	.10MF 20% 25V	
C3215	NCT21CH-101AY	E.CAPACITOR	100PF +50:-10% 16V	
C3216	QEK61HM-475ZM	E.CAPACITOR	4.7MF 20% 50V	
C3217	NCT21CH-151AY	E.CAPACITOR	150PF +50:-10% 16V	
C3218	QEK61AM-227ZM	E.CAPACITOR	220MF 20% 10V	
C3219	QTE1C06-476Z	E.CAPACITOR		
C3220	QEK61HM-475ZM	E.CAPACITOR	4.7MF 20% 50V	
C3251	NCT21CH-101AY	E.CAPACITOR	100PF +50:-10% 16V	
C3252	NCT21CH-101AY	E.CAPACITOR	100PF +50:-10% 16V	
C3253	QGBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
C3254	QCXB1CM-332Y	C.CAPACITOR	3300PF 20% 16V	
C3255	NCT21CH-151AY	E.CAPACITOR	150PF +50:-10% 16V	
C3281	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
C3301	QTE1C06-226Z	E.CAPACITOR		
C3302	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C3303	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C3304	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C3305	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
C3306	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C3307	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C3308	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C3309	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
C3310	QTE1C06-226Z	E.CAPACITOR		
C3311	QTE1CM-337ZE	E.CAPACITOR		
C3312	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
C3313	QEK61AM-336ZM	E.CAPACITOR	33MF 20% 10V	
C3314	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C3315	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C3316	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C3317	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
C3318	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	
C3319	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
C3320	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
C3321	NCT21CH-330AY	C.CAPACITOR	33PF +50:-10% 16V	
C3322	NCT21CH-201AY	C.CAPACITOR	200PF +50:-10% 16V	
C3323	NCT21CH-201AY	C.CAPACITOR	200PF +50:-10% 16V	
C3324	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
C3325	NDC21HJ-680X	C.CAPACITOR	.056MF 5% 50V	
C3326	QFN31HJ-563Z	M.CAPACITOR	.10MF 5% 50V	
C3327	QFN41HJ-104	M.CAPACITOR	2200PF 10% 50V	
C3328	NCT21CH-222AY	C.CAPACITOR		
C3329	QFN31HJ-563Z	M.CAPACITOR	.056MF 5% 50V	

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
A	C3301	QEK61CM-107	E CAPACITOR	100MF 20% 16V	
	C3331	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C3332	QEK61EM-475ZM	E CAPACITOR	4.7MF 20% 25V	
	C3333	QEK61EM-475ZM	E CAPACITOR	4.7MF 20% 25V	
	C3334	NCB21HK-222AY	C CAPACITOR	2200PF 10% 50V	
	C3352	NC21CH-102AY	C CAPACITOR	1000PF +50:-10% 16V	
	C3353	ND21HJ-561X	C CAPACITOR	.10MF +80:-20%	
	C3354	NC21HZ-104AY	C CAPACITOR	150PF +50:-10% 16V	
	C3356	NC21CH-151AY	C CAPACITOR	150PF +50:-10% 16V	
	C3357	NC21CH-151AY	C CAPACITOR	150PF +50:-10% 16V	
	C3358	NC21CH-151AY	C CAPACITOR	150PF +50:-10% 16V	
A	C3901	QET0437-828	E CAPACITOR	8200MF	
A	C3902	QFV41HJ-104ZM	M.M. CAPACITOR	-10MF 5% 50V	
	C3903	QEK61CM-107	E CAPACITOR	100MF 20% 16V	
	C3904	NC21CH-221AY	C CAPACITOR	220PF +50:-10% 16V	
	C3905	NCB21HK-103AY	C CAPACITOR	-010MF 10% 50V	
	C3906	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C3907	GFV41HJ-104ZM	TF CAPACITOR	-10MF 5% 50V	
	C3908	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C3909	QETB1JM-107	E CAPACITOR	100MF 20% 63V	
	C3910	QETB1JM-107	E CAPACITOR	100MF 20% 63V	
	C3911	QCVB1CN-103Y	C CAPACITOR	-010MF 30% 16V	
	C3912	QEK51HM-226	E CAPACITOR	22MF 20% 50V	
	C3913	QEK61HM-475ZN	E CAPACITOR	4.7MF 20% 50V	
	C3914	QEK51HM-226	E CAPACITOR	22MF 20% 50V	
	C5751	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C5752	QEK61CM-107	E CAPACITOR	100MF 20% 16V	
A	D1901	D3SBA20-S1	DIODE		
A	D1902	11ES2	DIODE		
A	D1903	11ES2	DIODE		
A	D1904	11ES2	DIODE		
A	D1905	11ES2	DIODE		
A	D1906	11ES2	DIODE		
	D1907	1SS133	SI DIODE		
	D1908	MT25.6JA	ZENER DIODE		
	D1909	MT26.2JC	ZENER DIODE		
	D1910	MTJ13C-T2	ZENER DIODE		
	D1911	MT24.3JB	ZENER DIODE		
	D1912	MTJ7.5C-T2	ZENER DIODE		
	D3301	1SS133	SI DIODE		
	D3302	1SS133	SI DIODE		
	D3303	MTJ4.7A-T2	ZENER DIODE		
	D3304	1SS133	SI DIODE		
	D3305	1SS133	SI DIODE		
	D3306	1SS133	SI DIODE		
	D3307	1SS133	SI DIODE		
	D3308	1SS133	SI DIODE		
	D3309	1SS133	SI DIODE		
	D3310	1SS133	SI DIODE		
	D3381	SELUIE10CXM	LED		
	D3901	1SS133	SI DIODE		
	D3902	1SS133	SI DIODE		
	D3903	MT29.1JC	ZENER DIODE		
	D3904	MT26.8JB	DIODE		
	D3905	DSK10C-E	DIODE		

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D3906	DSK10C-E	DIODE		
	D3907	MT239JDT-77	ZENER DIODE		
	D3908	MT28.2JC	ZENER DIODE		
	IC301	BH3852S	IC		
	IC302	NJM4580DD	IC		
A	IC303	LA4705NA	IC		
	IC304	BA15218F	IC		
	IC305	BA15218F	IC		
A	IC391	UPC78L05J-T	I C		
	IC572	TA8409F	IC		
A	J1901	QNC0001-001	AC INNET		
	J3001	FMMJ4001-001	SPK TERMINAL		
	J3002	VMJ3020-101	1PIN PINJ BLACK		
	J3381	QNS0014-001	JACK		
	K3381	VQ20048-009	INDUCTOR		
	K3382	VQ20048-009	INDUCTOR		
	K3383	EN28102-N102AY	F-BEADS		
	K3389	EN28102-N102AY	F-BEADS		
	K5751	VQ20048-009	INDUCTOR		
A	LF191	VQ20113-001	INDUCTOR		
	LF311	VQ20104-003	INDUCTOR	FTZ	
	LF321	VQ20104-003	INDUCTOR	FTZ	
	L3181	VQP0018-470	INDUCTOR	FTZ	
	L3182	VQP0018-470	INDUCTOR		
	L3281	VQP0018-470	INDUCTOR	FTZ	
	L3282	VQP0018-470	INDUCTOR		
	L3381	VQP0018-470	INDUCTOR	FTZ	
	L3382	VQP0018-470	INDUCTOR		
	L3901	QQL49AK-470Z	INDUCTOR		
	L5751	VQP0028-221Z	INDUCTOR		
	PP391	QZW0007-001	POST PIN	WR C.	
	PP392	VM20015-002	POST PIN		
	PP393	QZW0007-001	POST PIN		
A	Q1901	2SA1359/OY/	TRANSISTOR		
	Q1902	2SA1175	TRANSISTOR		
	Q1903	2SC2785	TRANSISTOR		
	Q1904	2SC2785	TRANSISTOR		
	Q1905	DTA144TSA-T	D. TRANSISTOR		
	Q1906	DTA144TSA-T	D. TRANSISTOR		
	Q1907	DTA144TSA-T	TRANSISTOR		
A	Q1908	2SA1359/OY/	TRANSISTOR		
	Q1909	2SC2785	TRANSISTOR		
A	Q1910	2SA1359/OY/	TRANSISTOR		
	Q1911	2SC2785	TRANSISTOR		
	Q1912	2SC2785	TRANSISTOR		
	Q3101	2SK301(P-Q)	FET		
	Q3102	2SD2114K(VW)T2	CHIP TRANSISTOR		
	Q3103	2SC2412K(RS/-X	CHIP TRANSISTOR		
	Q3104	2SD2114K(VW)T2	CHIP TRANSISTOR		
	Q3105	2SD2114K(VW)T2	CHIP TRANSISTOR		
	Q3201	2SK301(P-Q)	FET		
	Q3202	2SD2114K(VW)T2	CHIP TRANSISTOR		
	Q3203	2SC2412K(RS/-X	CHIP TRANSISTOR		
	Q3204	2SD2114K(VW)T2	CHIP TRANSISTOR		
	Q3205	2SD2114K(VW)T2	CHIP TRANSISTOR		

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q3301	25D2114K(VW)T2	CHIP TRANSISTOR			
Q3302	DT114EKA-X	TRANSISTOR			
Q3303	25C2412K/RS/-X	CHIP TRANSISTOR			
Q3304	25A1037AKT146	CHIP TRANSISTOR			
Q3305	DTA114EKA-X	TRANSISTOR			
Q3306	DTA114EKA-X	TRANSISTOR			
Q3307	DTA114TKAT146	TRANSISTOR			
Q3308	DT144TKA-X	TRANSISTOR			
Q3901	25C2412K/RS/-X	CHIP TRANSISTOR			
Q3902	25A1359JOY/	TRANSISTOR			
Q3903	25A1037AKT146	CHIP TRANSISTOR			
Q3904	25C2412K/RS/-X	CHIP TRANSISTOR			
Q3905	25C2412K/RS/-X	CHIP TRANSISTOR			
Q3906	DTA144TKAT146	TRANSISTOR			
Q3907	DT144TKA-X	TRANSISTOR			
Q3908	25B1565(E,F)	TRANSISTOR			
Q5751	25C2412K/RS/-X	CHIP TRANSISTOR			
R1902	GRD161J-1R0	C RESISTOR	1.0 5% 1/4W		
R1903	GRD161J-1R0	C RESISTOR	1.0 5% 1/4W		
R1904	GRD161J-1R0	C RESISTOR	1.0 5% 1/4W		
R1905	GRD161J-391	C RESISTOR	390 5% 1/4W		
R1906	GRD161J-152	C RESISTOR	1.5K 5% 1/4W		
R1907	GRD161J-181	C RESISTOR	180 5% 1/4W		
R1908	GRD161J-471	C RESISTOR	470 5% 1/4W		
R1909	GRD161J-472	C RESISTOR	4.7K 5% 1/4W		
R1910	GRD161J-471	C RESISTOR	470 5% 1/4W		
R1911	GRD161J-272	C RESISTOR	2.7K 5% 1/4W		
R1912	GRD161J-681	C RESISTOR	680 5% 1/4W		
R1913	GRD161J-392	C RESISTOR	3.9K 5% 1/4W		
R1914	GRD161J-471	C RESISTOR	470 5% 1/4W		
R1915	GRD161J-102	C RESISTOR	1.0K 5% 1/4W		
R1916	GRD161J-472	C RESISTOR	4.7K 5% 1/4W		
R1917	GRE141J-622Y	C RESISTOR	6.2K 5% 1/4W		
R1918	GRD161J-472	C RESISTOR	4.7K 5% 1/4W		
R1919	GRD161J-181	C RESISTOR	180 5% 1/4W		
R1920	GRE141J-103Y	C RESISTOR	10K 5% 1/4W		
R1921	GRE141J-103Y	C RESISTOR	10K 5% 1/4W		
R1922	GRD161J-681	C RESISTOR	680 5% 1/4W		
R1923	GRD161J-681	C RESISTOR	680 5% 1/4W		
R1924	GRD161J-681	C RESISTOR	680 5% 1/4W		
R1925	GRD161J-681	C RESISTOR	680 5% 1/4W		
R1926	GRD161J-472	C RESISTOR	4.7K 5% 1/4W		
R1927	GRD161J-272	C RESISTOR	2.7K 5% 1/4W		
R1928	GRD161J-681	C RESISTOR	680 5% 1/4W		
R1929	GRZ0077-4R7X	F RESISTOR	4.7 1/0W		
R3102	NRSA02J-475NY	MG RESISTOR	4.7M 5% 1/10W		
R3103	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W		
R3104	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3105	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3106	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W		
R3107	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W		
R3108	NRSA02J-622NY	MG RESISTOR	6.2K 5% 1/10W		
R3109	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W		
R3110	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3111	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W		

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R3112	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W		
R3113	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W		
R3114	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W		
R3115	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W		
R3116	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W		
R3117	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W		
R3118	NRSA02J-272NY	C RESISTOR	2.7K 5% 1/10W		
R3119	GRD161J-2R2	C RESISTOR	2.2 5% 1/4W		
R3120	GRD161J-2R2	C RESISTOR	2.2 5% 1/4W		
R3121	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W		
R3122	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W		
R3123	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W		
R3124	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W		
R3125	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W		
R3126	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W		
R3127	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W		
R3128	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		
R3129	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3130	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W		
R3131	NRSA02J-622NY	MG RESISTOR	6.2K 5% 1/10W		
R3132	GRD167J-682	C RESISTOR	6.8K 5% 1/4W		
R3133	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3202	NRSA02J-475NY	MG RESISTOR	4.7M 5% 1/10W		
R3203	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W		
R3204	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3205	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3206	NRSA02J-563NY	MG RESISTOR	56K 5% 1/10W		
R3207	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W		
R3208	NRSA02J-622NY	MG RESISTOR	6.2K 5% 1/10W		
R3209	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W		
R3210	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3211	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W		
R3212	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W		
R3213	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W		
R3214	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W		
R3215	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W		
R3216	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W		
R3217	NRSA02J-334NY	MG RESISTOR	330K 5% 1/10W		
R3218	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3219	GRD161J-2R2	C RESISTOR	2.2 5% 1/4W		
R3220	GRD161J-2R2	C RESISTOR	2.2 5% 1/4W		
R3221	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W		
R3222	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W		
R3223	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W		
R3224	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W		
R3225	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W		
R3226	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W		
R3227	NRSA02J-220NY	MG RESISTOR	22 5% 1/10W		
R3228	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W		
R3229	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3230	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W		
R3231	NRSA02J-622NY	MG RESISTOR	6.2K 5% 1/10W		
R3232	GRD167J-682	C RESISTOR	6.8K 5% 1/4W		
R3233	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W		
R3301	GRD161J-120	C RESISTOR	12 5% 1/4W		

BLOCK NO. 001

BLOCK NO. 001

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R3920	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3921	QRZ0077-4R7X	F RESISTOR	4.7 1/0W	
R3924	QRZ0077-4R7X	F RESISTOR	4.7 1/0W	
R3925	QRD161J-152	C RESISTOR	1.5K 5% 1/4W	
R3926	QRD161J-680	C RESISTOR	68 5% 1/4W	
R3927	QRD161J-223	C RESISTOR	22K 5% 1/4W	
R5751	NRSA02J-151NY	MG RESISTOR	150 5% 1/10W	
R5752	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R5753	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R5754	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R5755	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R5756	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
Z1901	EMG7331-003Z	FUSE CLIP	FOR F1901	
Z1902	EMG7331-003Z	FUSE CLIP	FOR F1901	
Z1903	EMG7331-003Z	FUSE CLIP	FOR F1902	
Z1904	EMG7331-003Z	FUSE CLIP	FOR F1902	
Z1905	EMG7331-003Z	FUSE CLIP	FOR F1903	
Z1906	EMG7331-003Z	FUSE CLIP	FOR F1903	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R3302	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R3303	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R3304	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R3305	NRSA02J-513NY	MG RESISTOR	51K 5% 1/10W	
R3306	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R3307	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R3308	QRD161J-331	C RESISTOR	330 5% 1/4W	
R3309	NRSA02J-103NY	MG RESISTOR	1.5K 5% 1/10W	
R3310	NRSA02J-103NY	MG RESISTOR	1.5K 5% 1/10W	
R3311	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3312	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3313	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R3315	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R3316	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R3317	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R3318	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R3319	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
R3320	QRD161J-331	C RESISTOR	330 5% 1/4W	
R3321	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R3322	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R3323	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R3324	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R3325	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R3326	NRSA02J-475NY	MG RESISTOR	4.7M 5% 1/10W	
R3327	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R3328	NRSA02J-474NY	MG RESISTOR	470K 5% 1/10W	
R3329	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R3330	NRSA02J-101NY	MG RESISTOR	100 5% 1/10W	
R3331	NRSA02J-275X	MG RESISTOR	2.7M 5% 1/10W	
R3332	QRD161J-120	C RESISTOR	12 5% 1/4W	
R3333	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R3334	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R3381	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R3382	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R3383	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R3384	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R3901	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
R3902	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
R3903	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R3904	NRSA02J-1R5NY	MG RESISTOR	1.5 5% 1/10W	
R3905	NRSA02J-1R5NY	MG RESISTOR	1.5 5% 1/10W	
R3906	NRSA02J-1R5NY	MG RESISTOR	1.5 5% 1/10W	
R3907	NRSA02J-181NY	MG RESISTOR	180 5% 1/10W	
R3908	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R3909	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R3910	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R3911	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
R3912	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R3913	NRSA02J-471NY	MG RESISTOR	470 5% 1/10W	
R3914	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R3915	NRSA02J-681NY	MG RESISTOR	680 5% 1/10W	
R3916	NRSA02J-752NY	MG RESISTOR	7.5K 5% 1/10W	
R3917	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
R3918	NRSA02J-821NY	MG RESISTOR	820 5% 1/10W	
R3919	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	

System Controller & FL Display Board

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C	2	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	4	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	5	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C	6	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	7	NCB21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
C	8	NCB21HJ-150AY	C CAPACITOR	15PF 5% 50V	
C	9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	11	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	12	NCB21HJ-150X	C CAPACITOR	.047MF 10% 25V	
C	13	NCB21HK-473AY	C CAPACITOR	1000PF 10% 50V	
C	14	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	15	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	16	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	17	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	18	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	19	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
C	21	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	30	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
C	31	NCB21HJ-390AY	C CAPACITOR	39PF 5% 50V	
C	32	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	33	QEK61AM-1072M	E CAPACITOR	100MF 20% 10V	
C	34	NCB21HJ-150AY	C CAPACITOR	15PF 5% 50V	
C	35	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	36	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C	37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	39	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	41	QEK41HM-104	E CAPACITOR	.010MF 20% 50V	
C	42	QEK41HM-474	E CAPACITOR	.47MF 20% 50V	
C	43	QEK61HM-3352N	E CAPACITOR	3.3MF 20% 50V	
C	44	NCB21HJ-221AY	C CAPACITOR	220PF 5% 50V	
C	45	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C	46	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
C	47	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	49	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
C	50	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
C	51	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
C	52	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
C	53	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
C	55	NCB21HJ-120AY	C CAPACITOR	12PF 5% 50V	
C	60	QEK61AM-1072M	E CAPACITOR	100MF 20% 10V	
C	61	NCB21HJ-120AY	C CAPACITOR	12PF 5% 50V	
C	62	NCB21HJ-120AY	C CAPACITOR	12PF 5% 50V	
C	63	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	65	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	66	NCB21HJ-151X	C CAPACITOR	150PF 5% 50V	
C	67	NCB21HJ-151X	C CAPACITOR	150PF 5% 50V	
C	68	NCB21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C	69	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
C	70	NCB21HK-392AY	C CAPACITOR	3900PF 10% 50V	
C	71	QEK61HM-3352N	E CAPACITOR	3.3MF 20% 50V	
C	72	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	80	NCB21HJ-820AY	C CAPACITOR	82PF 5% 50V	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	81	NCB21HJ-470AY	C CAPACITOR	47PF 5% 50V	
C	82	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C	83	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
C	84	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
C	85	NCB21HK-331AY	C CAPACITOR	330PF 10% 50V	
C	86	NCB21HK-561	C CAPACITOR	560PF 10% 50V	
C	89	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	90	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	91	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	92	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	93	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C	94	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C	95	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
CA801	QNCB4K-221	C-NETWORK	220PF 10%		
CA802	QNCB4K-221	C-NETWORK	220PF 10%		
CF 1	VCF2M3B-104	C FILTER	FM IF		
CF 2	VCF2S3B-102	C FILTER	FM IF		
CF 3	VCF1222-1152	C FILTER			
CF 4	GAX0409-001	CERA LOCK			
CN201	QGB1216J1-06S	CONNECTOR	TO FL		
CN501	EMV5109-006B	6P PLUG ASSY			
CN502	QGF1205F1-07	CONNECTOR			
CN503	VMC0041-003	CONNECTOR			
CN504	VMC0075-003	3P PLUG ASSY			
CN505	QGB2016K1-08	CONNECTOR			
CN506	VMC0314-S10	CONNECTOR			
CN507	QGB1214J1-12S	CONNECTOR			
CN508	VMC0041-006	CONNECTOR			
CN701	QGB1214K1-14S	CONNECTOR	TO MAIN PWB		
CN702	QGB1214K1-12S	CONNECTOR	TO MAIN PWB		
CN703	QGB1214K1-12S	CONNECTOR	TO FUNC PWB		
CN704	QGB1214K1-10S	CONNECTOR	TO FL PWB		
CN705	QGB1216J1-08S	CONNECTOR	TO FL PWB		
CN706	QGB1216J1-08S	CONNECTOR	TO FL PWB		
CN707	EMV7171-121R	CONNECTOR	TO MD PWB		
CN708	EMV7123-012R	CONNECTOR	TO CD PWB		
CN801	QGB1216K1-08S	CONNECTOR	TO MICOM		
CN802	QGB1216K1-08S	CONNECTOR	TO MICOM		
CN803	QGB1216K1-06S	CONNECTOR	TO MAIN		
CN804	QGB1216K1-06S	CONNECTOR	TO KEY		
C5101	NCB21HJ-151X	C CAPACITOR	150PF 5% 50V		
C5102	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C5103	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V		
C5104	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V		
C5105	QER41HM-475MM	E CAPACITOR	4.7MF 20% 50V		
C5106	NCB21HJ-561AY	C CAPACITOR	560PF 5% 50V		
C5109	QTE1H06-475Z	E CAPACITOR	4.7MF 20% 50V		
C5109	QER41HM-475MM	E CAPACITOR	4.7MF 20% 25V		
C5110	QEK61EM-475ZM	E CAPACITOR	4.7MF 20% 25V		
C5111	NCB21HJ-100AY	C CAPACITOR	100PF 5% 50V		
C5112	NCB21HJ-330AY	C CAPACITOR	33PF 5% 50V		
C5113	NCB21HJ-151X	C CAPACITOR	150PF 5% 50V		
C5201	NCB21HJ-151X	C CAPACITOR	150PF 5% 50V		
C5202	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C5203	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V		

UX-MD9000R

BLOCK NO. 02

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C5204	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
C5205	QEK41HM-475MM	E CAPACITOR	4.7MF 20% 50V	
C5206	NCS21HJ-561AY	C CAPACITOR	560PF 5% 50V	
C5208	QTE1H06-475Z	E CAPACITOR		
C5209	QEK41HM-475MM	E CAPACITOR	4.7MF 20% 50V	
C5210	QEK61EN-475ZM	E CAPACITOR	4.7MF 20% 25V	
C5211	NCS21HJ-100AY	C CAPACITOR	10PF 5% 50V	
C5212	NCS21HJ-330AY	C CAPACITOR	33PF 5% 50V	
C5213	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
C5301	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
C5302	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
C5303	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
C5304	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
C5305	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
C5306	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
C5307	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C5308	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C5309	QFV41HJ-474	CAPACITOR	.47MF 5% 50V	
C5310	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C5311	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
C5312	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C5701	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C5702	QFV41HJ-474	C CAPACITOR	.47MF 5% 50V	
C5703	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C5704	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C5705	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C5706	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C5901	QEK61CM-107	E CAPACITOR	100MF 20% 16V	
C5902	QEK61HM-475ZM	E CAPACITOR	4.7MF 20% 50V	
C7001	NCS21HJ-270AY	C CAPACITOR	27PF 5% 50V	
C7002	NCS21HJ-220AY	C CAPACITOR	22PF 5% 50V	
C7003	NCS21HJ-330AY	C CAPACITOR	33PF 5% 50V	
C7004	NCS21HJ-330AY	C CAPACITOR	33PF 5% 50V	
C7005	NCS21HJ-390AY	C CAPACITOR	39PF 5% 50V	
C7006	NCS21HJ-390AY	C CAPACITOR	39PF 5% 50V	
C7007	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C7008	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
C7009	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C7010	QEK61CM-107	E CAPACITOR	100MF 20% 16V	
C7011	QEZ0229-479Z	EDL CAPACITOR	47000MF	
C7012	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C7013	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C7014	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C7015	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C7017	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
C7018	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
C7019	QEK51HM-106	E CAPACITOR	10MF 20% 50V	
C7020	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
C7025	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C7026	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C7027	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
C7028	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
C7029	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
C7030	QEK51HM-106	E CAPACITOR	10MF 20% 50V	
C7031	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C7032	QEK51HM-106	E CAPACITOR	10MF 20% 50V	
C7033	QEK51HM-106	E CAPACITOR	10MF 20% 50V	
C7034	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
C7035	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C7036	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C7040	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
C7041	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C7042	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C7043	NCF21H2-104AY	C CAPACITOR	.10MF +80:-20%	
C7044	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
C7045	QFV41HJ-105	TF CAPACITOR	1.0MF 5% 50V	
C7051	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V	
C7052	QEK61CM-107	E CAPACITOR	100MF 20% 16V	
C7101	QEK61HM-475ZM	E CAPACITOR	4.7MF 20% 50V	
C7201	QEK61HM-475ZM	E CAPACITOR	4.7MF 20% 50V	
C8001	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
C8002	QEK61CM-107	E CAPACITOR	100MF 20% 16V	
C8003	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
C8004	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
C8005	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
C8006	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
C8007	NCS21HJ-271AY	C CAPACITOR	270PF 5% 50V	
C8008	QEK51HM-106	E CAPACITOR	10MF 20% 50V	
C8009	NCS21HJ-102AY	C CAPACITOR	1000PF 5% 50V	
C8011	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C8012	QFV41HJ-104ZM	TF CAPACITOR	.10MF 5% 50V	
C8013	NCB21HK-561	C CAPACITOR	560PF 10% 50V	
C8014	NCB21HK-561	C CAPACITOR	560PF 10% 50V	
C8015	NCB21HK-561	C CAPACITOR	560PF 10% 50V	
C8016	NCB21HK-561	C CAPACITOR	560PF 10% 50V	
C8017	NCB21HK-561	C CAPACITOR	560PF 10% 50V	
C8018	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
C8019	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
C8020	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
C8021	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
C8022	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
C8023	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
D 1	1SS133	SI DIODE		
D 2	1SS133	SI DIODE		
D 3	1SS133	SI DIODE		
D 4	1SS133	SI DIODE		
D1801	GLF0043-001	FL TUBE	FL DISPLAY	
D5301	MTZJ7.5C-T2	ZENER DIODE		
D5701	1SS133	SI DIODE		
D5702	1SS133	SI DIODE		
D5901	MTZ3.9JB	ZENER DIODE		
D5902	1SS133	SI DIODE		
D5903	1SS133	SI DIODE		
D7001	1SS133	SI DIODE		
D7002	1SS133	SI DIODE		
D7003	1SS133	SI DIODE		
D7004	MTZ5.1JC	ZENER DIODE		
D7005	1SS133	SI DIODE		
D7006	1SS133	SI DIODE		
D7007	MTZJ7.5C-T2	ZENER DIODE		

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	PP701	QZM0007-001	POST PIN		
	PP702	QZM0007-001	POST PIN		
	PP703	QZM0007-001	POST PIN		
	PP704	QZM0007-001	POST PIN		
	Q 1	25C2668(O)	TRANSISTOR		
	Q 2	DTA114YKA-X	TRANSISTOR		
	Q 3	KTC3199(GL)-T	TRANSISTOR		
	Q 4	KTC3199(GL)-T	TRANSISTOR		
	Q 6	DTA114YKA-X	TRANSISTOR		
	Q 7	25A1037K(R)-X	TRANSISTOR		
	Q 8	25A1037K(R)-X	TRANSISTOR		
	Q 14	25A1037K(R)-X	TRANSISTOR		
	Q5101	25D2114K(VW)T2	CHIP TRANSISTOR		
	Q5102	25C2412K(R/-X	TRANSISTOR		
	Q5103	25C2412K(R/-X	TRANSISTOR		
	Q5104	25C2412K(R/-X	TRANSISTOR		
	Q5105	25D2114K(VW)T2	CHIP TRANSISTOR		
	Q5201	25D2114K(VW)T2	CHIP TRANSISTOR		
	Q5202	25C2412K(R/-X	TRANSISTOR		
	Q5203	25C2412K(R/-X	TRANSISTOR		
	Q5204	25C2412K(R/-X	TRANSISTOR		
	Q5205	25D2114K(VW)T2	CHIP TRANSISTOR		
	Q5301	DTA114EKA-X	TRANSISTOR		
	Q5302	DTA114EKA-X	TRANSISTOR		
	Q5303	DTA114EKA-X	TRANSISTOR		
	Q5304	DTA114EKA-X	TRANSISTOR		
	Q5901	25A1037AKT146	CHIP TRANSISTOR		
	Q5902	25C2412K(RS/-X	TRANSISTOR		
	Q7001	25C2668(O)	TRANSISTOR		
	Q7002	25C2668(O)	TRANSISTOR		
	Q7003	DIC143EKA-X	DIGI TRANSISTOR		
	Q7004	25C2412K(R/-X	TRANSISTOR		
	Q7005	DTA114TKAT146	TRANSISTOR		
	Q8001	25C2412K(R/-X	TRANSISTOR		
	Q8002	25C2412K(R/-X	TRANSISTOR		
	Q8003	25C2412K(R/-X	TRANSISTOR		
	Q8004	25C2412K(R/-X	TRANSISTOR		
	Q8005	25C2412K(R/-X	TRANSISTOR		
	Q8020	DIC143TKA-X	DIGI TRANSISTOR		
	Q8021	DIC143TKA-X	DIGI TRANSISTOR		
	R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 2	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	
	R 3	NRSA02J-560NY	MG RESISTOR	56 5% 1/10W	
	R 10	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 12	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 13	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 15	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 16	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 20	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R 22	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 23	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 24	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 26	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D7008	1S8133	SI DIODE		
	D7009	1S8133	SI DIODE		
	D8001	SLR-325VCT31	LED	MD MODE (RED)	
	D8002	SLR-325VCT31	LED	MD MODE (RED)	
	D8003	SLR-325VCT31	LED	MD MODE (RED)	
	D8004	SLR-342VC-T09	LED RED H8.9MM	STANDBY (RED)	
	FA801	QAE0002-001	CR NETWORK		
	IC 1	TA2057N	IC		
	IC 2	LC72136N	IC		
	IC 4	BU1922	IC		
	IC531	BA15218F	IC		
	IC571	TC74HC00AF	IC		
	IC701	MN101C15FAK2	IC		
	IC702	UPC78L06J	IC		
	IC801	M66004FP-X	IC	FL DRIVER	
	IC802	RM6938-V4	RM-RECEIVER	REMOCON SENSER	
	J 1	EMB41YV-302K	ANT TERMINAL	AM/FM ANT COAX	
	J5301	VWJ3025-001	4PIN JACK ASSY		
	J5701	GP1F32R	OPTICAL JACK		
	K5301	VQZ0048-009	INDUCTOR		
	K5302	VQZ0048-009	INDUCTOR		
	K5303	ENZ8102-N102AY	F-BEADS		
	K5304	ENZ8102-N102AY	F-BEADS		
	K5305	VQZ0048-009	INDUCTOR		
	K5701	ENZ8102-N102AY	F-BEADS		
	K5702	ENZ8102-N102AY	F-BEADS		
	K5703	ENZ8102-N102AY	F-BEADS		
	K5704	ENZ8102-N102AY	F-BEADS		
	K5705	ENZ8102-N102AY	F-BEADS		
	K5706	ENZ8102-N102AY	F-BEADS		
	K7001	VQZ0048-009	INDUCTOR		
	K7002	VQZ0048-009	INDUCTOR		
	K7003	VQZ0048-009	INDUCTOR		
	K7010	VQZ0048-009	INDUCTOR		
	K7011	VQZ0048-009	INDUCTOR		
	K8001	VQZ0048-009	INDUCTOR		
	L 1	VQZ0098-102	COIL BLOCK	MW/LW RF/OSC	
	L 4	VQZ0018-221	INDUCTOR		
	L 5	ESL4007-101	INDUCTOR		
	L 10	VQZ0069-002	TRAP COIL	114KHZ TRAP	
	L 11	VQZ0018-2R7	INDUCTOR		
	LF511	ESF0101-010	FILTER		
	LF521	ESF0101-010	FILTER		
	L7001	VQZ0033-100Z	INDUCTOR		
	L7002	VQZ0018-4R7	INDUCTOR		
	L7003	QQL49AK-470Z	INDUCTOR		
	L7005	VQZ0018-4R7	INDUCTOR		
	L7006	VQZ0018-4R7	INDUCTOR		
	L7007	VQZ0018-4R7	INDUCTOR		
	L7101	VQZ0018-4R7	INDUCTOR		
	L7201	VQZ0018-4R7	INDUCTOR		
	L8001	VQZ0033-100Z	INDUCTOR		
	L8002	VQZ0033-100Z	INDUCTOR		
	L8003	QQL49AK-470Z	INDUCTOR		

BLOCK NO. 002

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 27	R	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 29	R	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 30	R	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 31	R	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 34	R	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 35	R	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 36	R	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 37	R	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 38	R	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 39	R	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 42	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 43	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 44	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 45	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 46	R	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 48	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 52	R	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 54	R	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 55	R	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 56	R	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 57	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 60	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 61	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 65	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 66	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 68	R	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 69	R	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 74	R	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 75	R	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 76	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 80	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 82	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 83	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 84	R	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R2001	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R2002	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R2003	R	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R2004	R	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R2005	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R2006	R	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R2007	R	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R2008	R	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R2009	R	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R2010	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R2011	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R2012	R	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R2013	R	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R2014	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R2015	R	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R2016	R	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R2017	R	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R2018	R	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R5101	R	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R5102	R	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
R5103	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	

BLOCK NO. 002

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R5104	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R5105	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R5106	R	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R5107	R	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R5108	R	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R5109	R	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R5110	R	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
R5111	R	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R5112	R	NRSA02J-622NY	MG RESISTOR	6.2K 5% 1/10W	
R5113	R	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5114	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R5115	R	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R5116	R	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R5117	R	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R5118	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R5119	R	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5120	R	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5121	R	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R5122	R	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5124	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R5201	R	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R5202	R	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
R5203	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R5204	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R5205	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R5206	R	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R5207	R	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R5208	R	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R5209	R	NRSA02J-183NY	MG RESISTOR	18K 5% 1/10W	
R5210	R	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
R5211	R	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R5212	R	NRSA02J-622NY	MG RESISTOR	6.2K 5% 1/10W	
R5213	R	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5214	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R5215	R	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R5216	R	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R5217	R	NRSA02J-823NY	MG RESISTOR	82K 5% 1/10W	
R5218	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R5219	R	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5220	R	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5221	R	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R5222	R	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R5224	R	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R5301	R	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R5302	R	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R5303	R	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R5304	R	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
R5305	R	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R5306	R	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R5701	R	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R5702	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R5901	R	NRSA02J-390NY	MG RESISTOR	39 5% 1/10W	
R5902	R	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R5903	R	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R5904	R	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	

BLOCK NO. 02

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R7060	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7061	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
R7062	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7063	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7064	NRSA02J-243NY	MG RESISTOR	24K 5% 1/10W	
R7065	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7066	NRSA02J-243NY	MG RESISTOR	24K 5% 1/10W	
R7067	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7068	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7069	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7070	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7071	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
R7072	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7074	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7075	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7076	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7077	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7080	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R7081	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R8001	NRSA02J-273NY	MG RESISTOR	27K 5% 1/10W	
R8002	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R8003	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R8004	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R8005	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R8006	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R8007	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
R8008	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
R8009	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
R8010	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
R8011	NRSA02J-682X	MG RESISTOR	6.8K 5% 1/10W	
R8017	NRSA02J-393NY	MG RESISTOR	39K 5% 1/10W	
R8051	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
R8052	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
SPACE	PUS9915-105	SPACER		
SPACE	PUS9915-105	SPACER		
S2001	QSW0698-001Z	TACT SWITCH	CD	
S2002	QSW0698-001Z	TACT SWITCH	FM/AM	
S2003	QSW0698-001Z	TACT SWITCH	VOL UP	
S2004	QSW0698-001Z	TACT SWITCH	VOL DOWN	
S2005	QSW0698-001Z	TACT SWITCH	REC PAUSE	
S2006	QSW0698-001Z	TACT SWITCH	SYNCHRO REC	
S2007	QSW0698-001Z	TACT SWITCH	POWER	
S2008	QSW0698-001Z	TACT SWITCH	AUX	
S2009	QSW0698-001Z	TACT SWITCH	MD	
S2010	QSW0698-001Z	TACT SWITCH	CD OP/CL	
S2011	QSW0698-001Z	TACT SWITCH	MD EJECT	
S2012	QSW0698-001Z	TACT SWITCH	TIMER	
S2013	QSW0698-001Z	TACT SWITCH	CLOCK	
S2014	QSW0698-001Z	TACT SWITCH	UP	
S2015	QSW0698-001Z	TACT SWITCH	STOP	
S2016	QSW0698-001Z	TACT SWITCH	DOWN	
S2017	QSW0698-001Z	TACT SWITCH	PRESET	
S2018	QSW0698-001Z	TACT SWITCH	AHB PRO	
S5701	QSW0620-001	SWITCH		
S5702	QSW0620-001	SWITCH		
T	1 VQT7A21-113	IFT		
TU	1 QAU0034-001	FRONT END	FM TU	
X	1 GAX0402-001	CRYSTAL		
X	2 VCS0507-001	CRYSTAL		
X7001	GAX0401-001	CRYSTAL	SUB CLOCK(32K)	
X7002	CSA8.00MT226-T	CERA LOCK	MAIN CLOCK(8M)	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R7001	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R7002	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R7003	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7004	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7005	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R7006	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7007	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7008	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7009	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7010	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7011	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7012	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7013	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7014	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7016	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7018	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7019	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7020	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7021	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7022	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7024	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7025	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7027	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7028	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7029	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7030	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7031	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7033	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7034	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7035	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7036	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7037	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7038	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7039	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7040	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7041	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7042	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7043	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7044	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7045	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7046	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7047	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7048	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7049	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7050	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7051	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7052	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7053	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7054	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7055	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7056	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7057	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7058	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7059	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	

CD Servo Control Board

BLOCK NO. 03

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 604	Q6K61AM-1072M	E CAPACITOR	100MF 20% 10V	
C 605	Q6T41EM-106	E CAPACITOR	10MF 20% 25V	
C 606	Q6GB1HK-102	C CAPACITOR	1000PF 10% 50V	
C 607	Q6GB1HK-102	C CAPACITOR	1000PF 10% 50V	
C 608	Q6T41HM-105	E CAPACITOR	1.0MF 20% 50V	
C 609	Q6BB1HK-101Y	C CAPACITOR	100PF 10% 50V	
C 610	Q6LC1HJ-2732M	M CAPACITOR	.027MF 5% 50V	
C 611	Q6XB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C 612	Q6VB1CN-103Y	C CAPACITOR	.010MF 30% 16V	
C 613	Q6BB1HK-331Y	C CAPACITOR	330PF 10% 50V	
C 614	Q6LC1HJ-1042M	M CAPACITOR	.10MF 5% 50V	
C 615	Q6FB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C 616	Q6FB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C 617	Q6FB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C 618	Q6XB1CM-222Y	C CAPACITOR	2200PF 20% 16V	
C 619	Q6BB1HK-271Y	C CAPACITOR	270PF 10% 50V	
C 620	Q6S11HJ-470	C CAPACITOR	47PF 5% 50V	
C 621	Q6BB1HK-821Y	C CAPACITOR	820PF 10% 50V	
C 622	Q6TC1AM-4767M	E CAPACITOR	47MF 20% 10V	
C 623	Q6LC1HJ-1042M	M CAPACITOR	.10MF 5% 50V	
C 628	Q6C11EM-473V	C CAPACITOR	.047MF 20% 25V	
C 629	Q6TC1AM-1072N	E CAPACITOR	100MF 20% 10V	
C 631	Q6T41AM-477	E CAPACITOR	470MF 20% 10V	
C 632	Q6K61AM-1072M	E CAPACITOR	100MF 20% 10V	
C 651	Q6S11HJ-120	C CAPACITOR	12PF 5% 50V	
C 652	Q6S11HJ-150	C CAPACITOR	15PF 5% 50V	
C 653	Q6FB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C 655	Q6C11EM-473V	C CAPACITOR	.047MF 20% 25V	
C 661	Q6BB1HK-471Y	C CAPACITOR	470PF 10% 50V	
C 662	Q6FB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C 663	Q6LC1HJ-2232M	M CAPACITOR	.022MF 5% 50V	
C 664	Q6FB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C 665	Q6V41HJ-1042M	TF CAPACITOR	.10MF 5% 50V	
C 671	Q6XB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
C 672	Q6XB1CM-152Y	C CAPACITOR	1500PF 20% 16V	
C 673	Q6E1C05-227	E CAPACITOR	.022MF +80:-20% 50V	
C 674	Q6FB1HZ-223	C CAPACITOR	.022MF +80:-20% 50V	
C 675	Q6GB1HK-102	C CAPACITOR	1000PF 10% 50V	
C 676	Q6GB1HK-102	C CAPACITOR	1000PF 10% 50V	
C 691	Q6BB1HK-151Y	C CAPACITOR	150PF 10% 50V	
C 692	Q6BB1HK-151Y	C CAPACITOR	150PF 10% 50V	
C 693	Q6BB1HK-151Y	C CAPACITOR	150PF 10% 50V	
C 694	Q6BB1HK-151Y	C CAPACITOR	150PF 10% 50V	
C 698	Q6GB1HK-102	C CAPACITOR	1000PF 10% 50V	
CN601	Q6F1008F1-15	CONNECTOR	TO RF	
CN603	Q6F1205F1-07	CONNECTOR	TO AUDIO	
CN604	EMV7123-012R	CONNECTOR	TO MICRON	
CN605	VMC0041-003	CONNECTOR	TO DIGITAL OUT	
D 661	1S8133	SI DIODE		
IC601	AN8806SB	IC	RF AMP	
IC602	BA6897FP	IC	DRIVER	
IC603	MN35510	IC	1CHIP PROCESSOR	
Q 601	2SA952/LK/-T	TRANSISTOR		
Q 631	2SA952/LK/-T	TRANSISTOR		
R 601	Q6RD161J-123	C RESISTOR	12K 5% 1/4W	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 603	Q6RD161J-125	C RESISTOR	1.2M 5% 1/4W	
R 605	Q6RD161J-134	C RESISTOR	130K 5% 1/4W	
R 606	Q6RD161J-913	C RESISTOR	91K 5% 1/4W	
R 607	Q6RD161J-273	C RESISTOR	27K 5% 1/4W	
R 609	Q6RD161J-114	C RESISTOR	27K 5% 1/4W	
R 610	Q6RD161J-154	C RESISTOR	150K 5% 1/4W	
R 612	Q6E141J-103Y	C RESISTOR	10K 5% 1/4W	
R 613	Q6RD161J-121	C RESISTOR	120 5% 1/4W	
R 614	Q6RD161J-100	C RESISTOR	10 5% 1/4W	
R 615	Q6RD161J-120	C RESISTOR	12 5% 1/4W	
R 616	Q6RD161J-910Y	C RESISTOR	91 5% 1/4W	
R 621	Q6RD161J-330	C RESISTOR	33 5% 1/4W	
R 622	Q6RD161J-330	C RESISTOR	33 5% 1/4W	
R 623	Q6RD161J-330	C RESISTOR	33 5% 1/4W	
R 631	Q6RD161J-331	C RESISTOR	330 5% 1/4W	
R 632	Q6RD161J-101	C RESISTOR	100 5% 1/4W	
R 633	Q6RD161J-273	C RESISTOR	27K 5% 1/4W	
R 641	Q6RD161J-563	C RESISTOR	56K 5% 1/4W	
R 642	Q6RD161J-123	C RESISTOR	12K 5% 1/4W	
R 643	Q6RD161J-822	C RESISTOR	8.2K 5% 1/4W	
R 644	Q6RD161J-223	C RESISTOR	22K 5% 1/4W	
R 645	Q6RD161J-223	C RESISTOR	22K 5% 1/4W	
R 646	Q6RD161J-182	C RESISTOR	1.8K 5% 1/4W	
R 647	Q6RD161J-562	C RESISTOR	5.6K 5% 1/4W	
R 651	Q6RD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 652	Q6RD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 653	Q6RD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 654	Q6RD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 655	Q6RD161J-471	C RESISTOR	470 5% 1/4W	
R 656	Q6RD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 659	Q6RD161J-471	C RESISTOR	470 5% 1/4W	
R 661	Q6RD161J-104	C RESISTOR	100K 5% 1/4W	
R 662	Q6RD161J-155	C RESISTOR	1.5M 5% 1/4W	
R 663	Q6RD161J-124	C RESISTOR	120K 5% 1/4W	
R 664	Q6RD161J-471	C RESISTOR	470 5% 1/4W	
R 666	Q6RD161J-220	C RESISTOR	22 5% 1/4W	
R 671	Q6RD161J-102	C RESISTOR	1.0K 5% 1/4W	
R 672	Q6RD161J-102	C RESISTOR	1.0K 5% 1/4W	
X 651	V6X5016-934V	CRYSTAL	16.9344MHZ	

■ MD Servo Control Board

BLOCK NO. 04

BLOCK NO. 04

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 300	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 302	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 307	NCF31HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 310	NCF31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 311	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
C 312	NEA70GM-476NZ	E CAPACITOR	47MF 20%	
C 314	NCF31CK-223A	C CAPACITOR	-022MF 10% 16V	
C 315	NCF31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 316	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
C 318	NCF31HK-482AY	C CAPACITOR	6800PF 10% 50V	
C 319	NCF31CK-333AY	C CAPACITOR	-033MF 10% 16V	
C 320	NCF31CK-474AY	C CAPACITOR	-47MF 10% 16V	
C 321	NCF31HK-472AY	C CAPACITOR	4700PF 10% 50V	
C 322	NCF30JK-105AY	C CAPACITOR	1.0MF 10% 10V	
C 323	NCF31HK-482AY	C CAPACITOR	6800PF 10% 50V	
C 324	NCF31CK-224YU	C CAPACITOR	-22MF 10% 16V	
C 325	NCF31CK-103AYM	C CAPACITOR	-010MF 10% 16V	
C 326	NCF31CK-223A	C CAPACITOR	-022MF 10% 16V	
C 327	NCF31CK-104AY	C CAPACITOR	-10MF 10% 16V	
C 328	NCF31CK-104AY	C CAPACITOR	-10MF 10% 16V	
C 330	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 333	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 334	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 340	NCF31CK-223A	C CAPACITOR	-022MF 10% 16V	
C 341	NCF31CK-223A	C CAPACITOR	-022MF 10% 16V	
C 342	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 350	NEA70GM-476NZ	E CAPACITOR	47MF 20%	
C 351	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
C 352	NEA70GM-476NZ	E CAPACITOR	47MF 20%	
C 353	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
C 354	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
C 355	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 356	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 357	NCS21HJ-100AY	C CAPACITOR	10PF 5% 50V	
C 358	NCS21HJ-100AY	C CAPACITOR	10PF 5% 50V	
C 359	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 361	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 371	NCS31HJ-100AY	C CAPACITOR	10PF 5% 50V	
C 372	NCS31HJ-100AY	C CAPACITOR	10PF 5% 50V	
C 375	NCF31CK-103AYM	C CAPACITOR	-010MF 10% 16V	
C 376	NCF31CK-474AY	C CAPACITOR	-47MF 10% 16V	
C 377	NCS31HJ-471AY	C CAPACITOR	4700PF 5% 50V	
C 379	NCF21CK-474AY	C CAPACITOR	-47MF 10% 16V	
C 380	NCF31CK-153AYU	C CAPACITOR	-015MF 10% 16V	
C 381	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 382	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 390	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
C 400	NEA70JM-226X	E CAPACITOR	22MF 20% 6.3V	
C 401	NEA70JM-107NP	E CAPACITOR	100MF 20% 6.3V	
C 402	NCF31HK-331AY	C CAPACITOR	3300PF 10% 50V	
C 403	NEA70GM-476NZ	E CAPACITOR	47MF 20%	
C 404	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 410	NEA70JM-107NP	E CAPACITOR	100MF 20% 6.3V	
C 411	NCF31AZ-105AYU	C CAPACITOR	1.0MF +80:-20%	
C 412	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 421	NCF31HK-561AY	C CAPACITOR	560PF 10% 50V	
C 423	NCF31HK-561AY	C CAPACITOR	560PF 10% 50V	
C 427	NCF31HK-561AY	C CAPACITOR	560PF 10% 50V	
C 429	NCF31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 431	NCF31HK-102AY	C CAPACITOR	1000PF 10% 50V	
C 433	NCF31HK-562AY	C CAPACITOR	5600PF 10% 50V	
C 435	NCF31CK-103AYM	C CAPACITOR	-010MF 10% 16V	
C 439	NCF31CK-103AYM	C CAPACITOR	-010MF 10% 16V	
C 450	NEA70JM-107NP	E CAPACITOR	100MF 20% 6.3V	
C 451	NEA70GM-107X	E CAPACITOR	100MF 20%	
C 452	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 453	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 455	NCF32AJ-101X	C CAPACITOR	47MF 20% 6.3V	
C 480	NEA70JM-476NZ	E CAPACITOR	47MF 20% 6.3V	
C 481	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
C 482	NEA70JM-226X	E CAPACITOR	22MF 20% 6.3V	
C 483	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 484	NEA71CM-106NZ	E CAPACITOR	10MF 20% 16V	
C 485	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 486	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 487	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 488	NEA71CM-106NZ	E CAPACITOR	10MF 20% 16V	
C 490	NCF31CK-103AYM	C CAPACITOR	-010MF 10% 16V	
C 491	NCF31HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 492	NCF31HK-222AY	C CAPACITOR	2200PF 10% 50V	
C 493	NCF21CZ-105AY	C CAPACITOR	1.0MF +80:-20%	
C 501	NCS21HJ-220AY	C CAPACITOR	22PF 5% 50V	
C 502	NCS21HJ-220AY	C CAPACITOR	22PF 5% 50V	
C 511	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 512	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 515	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
C 591	NCF31CZ-104AY	C CAPACITOR	-10MF +80:-20%	
CN321	EMV150-221E	CONNECTOR		
CN407	EMV5109-007BE	SOCKET		
CN408	EMV5109-008BE	SOCKET		
CN521	EMV7154-221E	SOCKET		
D 310	1SS355-X	DIODE		
D 451	SC802-06-X	DIODE		
D 452	SC802-06-X	DIODE		
IC310	CXA2523AR	IC		
IC340	TC7S08F-W	IC		
IC350	CXD2652AR	IC		
IC390	MN41V4400TT	IC		
IC410	M56758FP-X	IC 5CH DRIVER		
IC450	BD7910FV-X	IC M.HEAD DRIVE		
IC480	AK4520A-VF-X	IC	A/D-D/A CONV	
IC485	TK71340M-W	IC	4.0V REG	
IC500	HD643304SSV09F	IC		
IC590	AK93C45AF-W	IC		
K 491	NQR0129-004X	FERRITE BEADS		
K 492	NQR0129-004X	FERRITE BEADS		
K 495	NQR0129-004X	FERRITE BEADS		
K 496	NQR0129-004X	FERRITE BEADS		

BLOCK NO. 04												BLOCK NO. 04											
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX												
K 521	VQZ0108-006Y		INDUCTOR			R 365	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
K 522	VQZ0108-006Y		INDUCTOR			R 366	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
K 523	NGR0129-002X		FERRITE BEADS	5%		R 367	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
K 524	NRSA63J-ORONYR		MG RESISTOR			R 368	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
K 931	NGR0265-003X		FERRITE BEADS			R 369	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
L 525	VGP0032-1ROY		INDUCTOR			R 370	NRSA63J-104NY	MG RESISTOR	100K 5%														
L 526	VGP0032-1ROY		INDUCTOR			R 371	NRSA63J-103NY	MG RESISTOR	10K 5%														
Q 330	2SA1362GR		TRANSISTOR			R 372	NRSA63J-103NY	MG RESISTOR	10K 5%														
Q 331	DTA114EKA-X		TRANSISTOR			R 375	NRSA63J-103NY	MG RESISTOR	10K 5%														
Q 332	DTA113ZKA-X		TRANSISTOR			R 376	NRSA63J-104NY	MG RESISTOR	100K 5%														
Q 333	DTA113ZKA-X		TRANSISTOR			R 377	NRSA63J-684NY	MG RESISTOR	680K 5%														
Q 400	2SA1363T1(E,F)		CHIP TRANSISTOR			R 378	NRSA63J-332NY	MG RESISTOR	3.3K 5%														
Q 401	2SC2411K(Q,R)TL		CHIP TRANSISTOR			R 379	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
Q 402	DTA113ZKA-X		TRANSISTOR			R 380	NRSA63J-105NYR	MG RESISTOR	1.0M 5%														
R 300	NRSA63J-ORONYR		MG RESISTOR	5%		R 381	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
R 301	NRSA63J-ORONYR		MG RESISTOR	5%		R 382	NRSA63J-151NY	MG RESISTOR	150 5%														
R 302	NRSA63J-ORONYR		MG RESISTOR	5%		R 389	NRSA63J-331NY	MG RESISTOR	330 5%														
R 303	NRSA63J-ORONYR		MG RESISTOR	5%		R 391	NRSA63J-152NY	MG RESISTOR	1.5K 5%														
R 305	NRSA63J-222NY		MG RESISTOR	2.2K 5%		R 392	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
R 306	NRSA63J-474NY		MG RESISTOR	470K 5%		R 393	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
R 309	NRSA63J-474NY		MG RESISTOR	470K 5%		R 394	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
R 310	NRSA63J-331NY		MG RESISTOR	330 5%		R 395	NRSA63J-102NY	MG RESISTOR	1.0K 5%														
R 311	NRSA63J-183NY		MG RESISTOR	18K 5%		R 396	NRSA63J-331NY	MG RESISTOR	330 5%														
R 312	NRSA63J-103NY		MG RESISTOR	10K 5%		R 397	NRSA63J-331NY	MG RESISTOR	330 5%														
R 313	NRSA63J-104NY		MG RESISTOR	100K 5%		R 401	NRVA63D-123X	MG RESISTOR	12K														
R 314	NRSA63J-133NY		MG RESISTOR	13K 5%		R 402	NRVA63D-512X	MG RESISTOR	5.1K														
R 315	NRSA63J-243NY		MG RESISTOR	24K 5%		R 403	NRSA63J-ORONYR	MG RESISTOR	5%														
R 316	NRSA63J-104NY		MG RESISTOR	100K 5%		R 404	NRSA63J-104NY	MG RESISTOR	100K 5%														
R 317	NRSA63J-103NY		MG RESISTOR	10K 5%		R 420	NRVA63D-223NY	MF RESISTER	22K														
R 320	NRSA63J-563NY		MG RESISTOR	56K 5%		R 421	NRVA63D-103NY	MF RESISTER	10K														
R 321	NRSA63J-331NY		MG RESISTOR	330 5%		R 422	NRVA63D-223NY	MF RESISTER	22K														
R 322	NRSA63J-331NY		MG RESISTOR	330 5%		R 423	NRVA63D-103NY	MF RESISTER	10K														
R 323	NRSA63J-331NY		MG RESISTOR	330 5%		R 424	NRVA63D-223NY	MF RESISTER	22K														
R 324	NRSA63J-102NY		MG RESISTOR	1.0K 5%		R 425	NRVA63D-103NY	MF RESISTER	10K														
R 325	NRSA63J-472NY		MG RESISTOR	4.7K 5%		R 426	NRVA63D-223NY	MF RESISTER	22K														
R 326	NRSA63J-331NY		MG RESISTOR	330 5%		R 427	NRVA63D-103NY	MF RESISTER	10K														
R 327	NRSA63J-331NY		MG RESISTOR	330 5%		R 428	NRVA63D-183NY	MG RESISTOR	18K														
R 328	NRSA63J-101NYR		MG RESISTOR	100 5%		R 429	NRVA63D-103NY	MF RESISTER	10K														
R 330	NRSA63J-ORONYR		MG RESISTOR	5%		R 430	NRVA63D-183NY	MG RESISTOR	18K														
R 331	NRSA63J-220NY		MG RESISTOR	22 5%		R 431	NRVA63D-103NY	MF RESISTER	10K														
R 336	NRSA63J-104NY		MG RESISTOR	100K 5%		R 432	NRVA63D-223NY	MF RESISTER	22K														
R 337	NRSA63J-1RONY		MG RESISTOR	1.0 5%		R 433	NRVA63D-822X	MF RESISTER	8.2K														
R 338	NRSA63J-4R7NY		MG RESISTOR	4.7 5%		R 434	NRVA63D-223NY	MF RESISTER	22K														
R 340	NRSA63J-222NY		MG RESISTOR	2.2K 5%		R 435	NRVA63D-822X	MF RESISTER	8.2K														
R 341	NRSA63J-222NY		MG RESISTOR	2.2K 5%		R 436	NRSA63J-223NY	MF RESISTER	22K 5%														
R 342	NRSA63J-222NY		MG RESISTOR	2.2K 5%		R 437	NRSA63J-302NY	MG RESISTOR	3.0K 5%														
R 351	NRSA63J-100NY		MG RESISTOR	10 5%		R 438	NRSA63J-223NY	MF RESISTER	22K 5%														
R 352	NRSA63J-100NY		MG RESISTOR	10 5%		R 439	NRSA63J-302NY	MG RESISTOR	3.0K 5%														
R 353	NRSA63J-105NYR		MG RESISTOR	1.0M 5%		R 451	NRSA63J-103NY	MG RESISTOR	10K 5%														
R 354	NRVA63D-103NY		MF RESISTER	10K		R 452	NRSA63J-103NY	MG RESISTOR	10K 5%														
R 355	NRVA63D-103NY		MF RESISTER	10K		R 453	NRSA63J-1RONY	MG RESISTOR	1.0 5%														
R 361	NRSA63J-102NY		MG RESISTOR	1.0K 5%		R 454	NRSA63J-1RONY	MG RESISTOR	1.0 5%														
R 362	NRSA63J-102NY		MG RESISTOR	1.0K 5%		R 455	NRSA63J-223NY	MF RESISTER	22K 5%														
R 363	NRSA63J-102NY		MG RESISTOR	1.0K 5%		R 481	NRSA63J-100NY	MG RESISTOR	10 5%														
R 364	NRSA63J-102NY		MG RESISTOR	1.0K 5%		R 483	NRSA63J-ORONYR	MG RESISTOR	5%														

BLOCK NO. 04

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 485	NRSA63J-103NY	MG RESISTOR	10K 5%	
R 491	NRSA63J-471NY	MG RESISTOR	470 5%	
R 492	NRSA63J-471NY	MG RESISTOR	470 5%	
R 495	NRSA63J-471NY	MG RESISTOR	470 5%	
R 496	NRSA63J-471NY	MG RESISTOR	470 5%	
R 501	NRSA63J-105NYR	MG RESISTOR	1.0M 5%	
R 502	NRSA63J-561NY	MG RESISTOR	560 5%	
R 503	NRSA63J-103NY	MG RESISTOR	10K 5%	
R 504	NRSA63J-333NY	MG RESISTOR	33K 5%	
R 505	NRSA63J-4R7NY	MG RESISTOR	4.7 5%	
R 510	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 511	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 512	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 513	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 514	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 515	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 516	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 517	NRSA63J-104NY	MG RESISTOR	100K 5%	
R 518	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 519	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 520	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 521	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 522	NRSA63J-222NY	MG RESISTOR	2.2K 5%	
R 523	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 524	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 525	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 531	NRSA63J-103NY	MG RESISTOR	10K 5%	
R 532	NRSA63J-103NY	MG RESISTOR	10K 5%	
R 533	NRSA63J-103NY	MG RESISTOR	10K 5%	
R 534	NRSA63J-103NY	MG RESISTOR	10K 5%	
R 535	NRSA63J-103NY	MG RESISTOR	10K 5%	
R 549	NRSA63J-OR0NYR	MG RESISTOR	5%	
R 551	NRSA63J-104NY	MG RESISTOR	100K 5%	
R 552	NRSA63J-104NY	MG RESISTOR	100K 5%	
R 553	NRSA63J-104NY	MG RESISTOR	100K 5%	
R 554	NRSA63J-104NY	MG RESISTOR	100K 5%	
R 555	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 556	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 557	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 558	NRSA63J-102NY	MG RESISTOR	1.0K 5%	
R 559	NRSA63J-333NY	MG RESISTOR	33K 5%	
R 560	NRSA63J-333NY	MG RESISTOR	33K 5%	
R 561	NRSA63J-333NY	MG RESISTOR	33K 5%	
R 562	NRSA63J-333NY	MG RESISTOR	33K 5%	
R 563	NRSA63J-333NY	MG RESISTOR	33K 5%	
R 591	NRSA63J-220NY	MG RESISTOR	22 5%	
R 592	NRSA63J-104NY	MG RESISTOR	100K 5%	
X 350	NAX0160-001X	CRYSTAL		
X 500	NAX0159-001X			

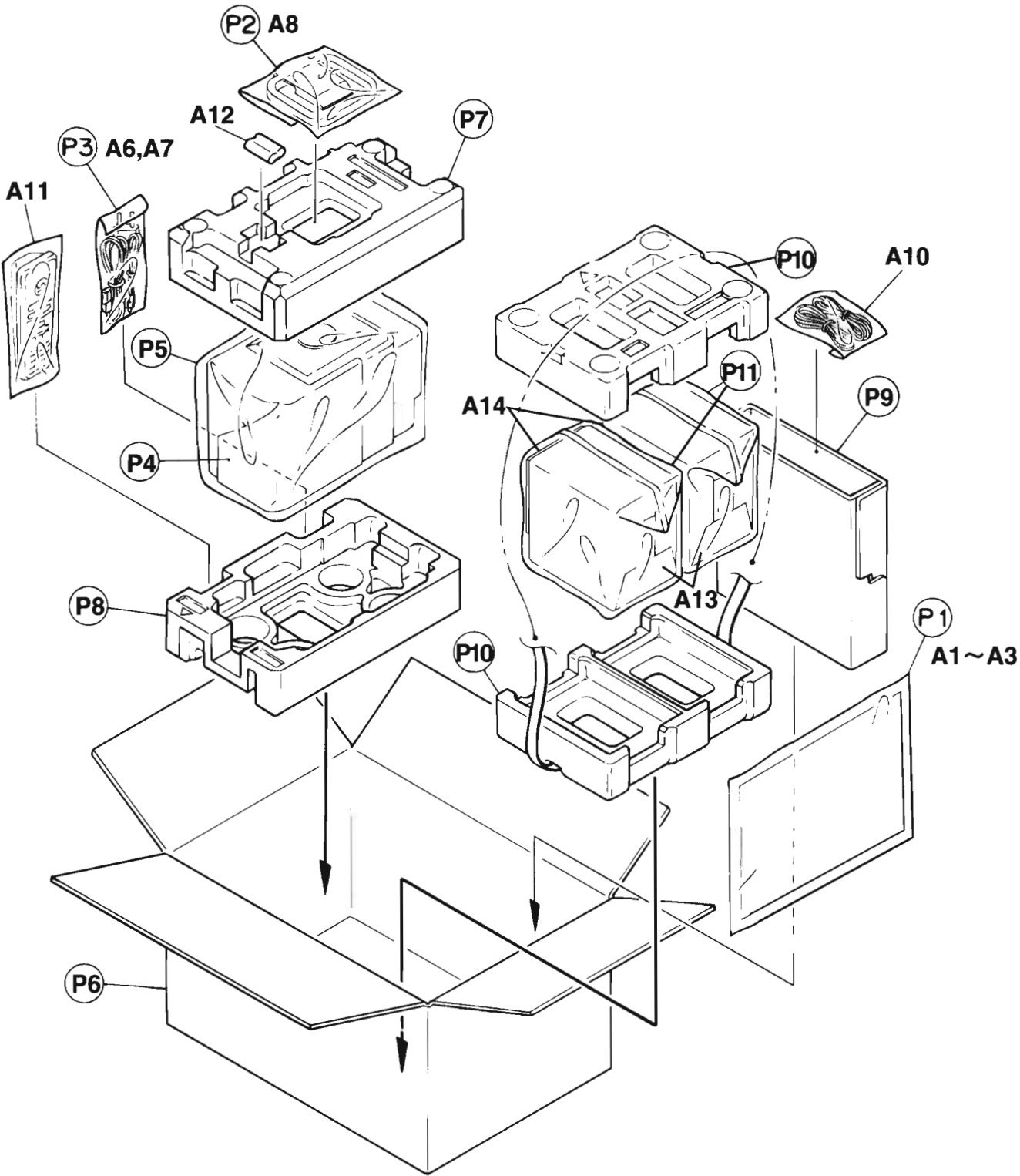
Packing Materials and Accessories List

Block No.

M	4	M	M
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Block No.

M	5	M	M
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■ Packing List

BLOCK NO. M4MM

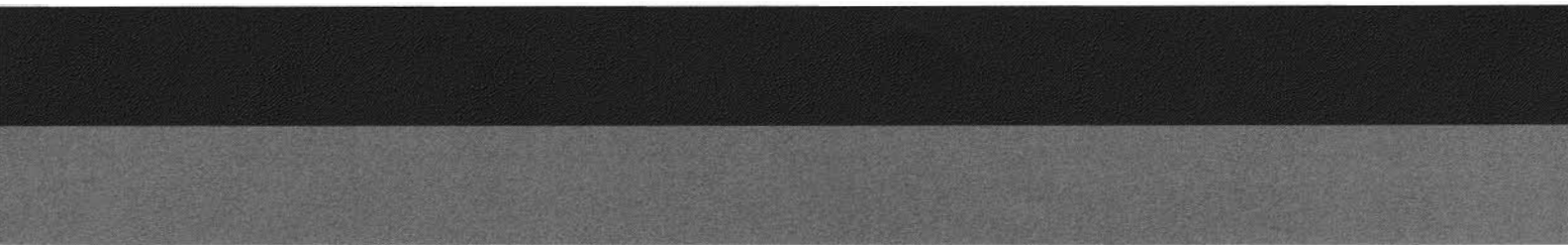
△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	VPE3005-007	POLY BAG	INSTRUCTIONS	1		
P	2	QPA01702503P	POLY BAG	AM LOOP ANT	1		
P	3	QPA01202505	POLY BAG	FOR POWER CORD	1	E, EN	
		QPA01503503	POLY BAG	FOR POWER CORD	1	B	
P	4	VPK3001-012SC	SHEET		1		
P	5	QPC05004515P	POLY BAG		1		
P	6	LV30142-009A	CARTON		1		
P	7	LV10069-001A	CUSHION		1		
P	8	LV10069-002A	CUSHION	BOTTOM	1		
P	9	LV30440-001A	SPACER		1		
P	10	LV10080-001A	SPK CUSHION		2		
P	11	85-000-289-01	POLY BAG	FOR SPEAKER	2		

■ Accessories List

BLOCK NO. M5MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	1	LVT0053-001A	INSTRUCTIONS		1	E	
		LVT0053-003A	INSTRUCTIONS		1	B	
		LVT0053-002A	INSTRUCTIONS		1	EN	
A	2	BT-54008-1	WARRANTY CARD		1		
A	3	LV40554-001A	POLISHING CLOTH		1		
A	6	EWP503-001	ANT.WIRE	FM ANT.	1		
A	7	QMP5520-183BS	POWER CORD		1	B	
		QMP39F0-183	POWER CORD		1	E, EN	
A	8	QAL0014-001	AM LOOP ANT	AM ANT.	1		
A	10	VMP0133-001	SPK.CORD(2PCS)	SPEAKER CORD OF	1		
A	11	RM-RXUMD9000R	REMOCON UNIT		1		
A	12	R6SPTT/2STS	BATTERY	FOR REMOCON	1		
A	13	SPMD9000K-SPBOX	SPEAKER		2		
A	14	LV20107-002A	SARAN NET ASSY		2		

UX-MD9000R



JVC

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